Banaras Hindu University

Notations :

1.Options shown in green color and with ✔ icon are correct.

2.Options shown in red color and with ✖ icon are incorrect.

Question Paper Name :	135
Subject Name :	135
Creation Date :	2020-09-13 19:25:28
Duration :	120
Total Marks :	300
Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console?	No
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

BSc Ag

Group Number :	1
Group Id :	59345275
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	300

Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Section I MENTAL AGILITY

Section Id :	593452137
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	25
Number of Questions to be attempted :	25
Section Marks :	75
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	593452165
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 5934528558 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $2k + 1, 6, 3k + 1$ are in Arithmetic progression, then value of k is :

यदि $2k + 1, 6, 3k + 1$ समानान्तर श्रेणी में है, तो k का मान होगा :

Options :

1. ✔ 2

2. ✖ 1

3. ✖ -2

4. ✖ -1

Question Number : 2 Question Id : 5934528559 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $A(1, 2)$, $B(4, 3)$ and $C(6, 6)$ are the vertices of a parallelogram $ABCD$, then the coordinate of fourth vertex is :

यदि $A(1, 2)$, $B(4, 3)$ तथा $C(6, 6)$ समानान्तर चतुर्भुज $ABCD$ के तीन शीर्ष बिन्दु हैं, तो चौथा शीर्ष का बिन्दु है :

Options :

1. ✖ $(2, 5)$

2. ✔ $(3, 5)$

3. ✖ $(5, 3)$

4. ✖ $(5, 2)$

Question Number : 3 Question Id : 5934528560 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the sum of n terms of an A. P. is $2n^2 + 5n$, then 2nd term is :

यदि समानान्तर श्रेणी के n पदों का योग $2n^2 + 5n$ है, तो द्वितीय पद होगा :

Options :

1. ✖ 7

2. ✔ 11

3. ✖ 13

4. ✖ 18

Question Number : 4 Question Id : 5934528561 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A bag contains 40 balls out of which some are red, some are blue and remaining are black. If the probability of drawing a red ball is $\frac{11}{20}$ and if blue ball is $\frac{1}{5}$, then the number of black balls is :

एक थैले में 40 गेंद हैं जिसमें कुछ लाल रंग की गेंद, कुछ नीले रंग की गेंद हैं शेष गेंदें काले रंग की हैं। यदि लाल रंग की गेंद निकलने की सम्भावना $\frac{11}{20}$ है तथा नीले रंग की गेंद निकलने की सम्भावना $\frac{1}{5}$ है, तो काले रंग की गेंदों की संख्या होगी :

Options :

1. ✖ 5

2. ✖ 25

3. ✔ 10

4. ✖ 30

Question Number : 5 Question Id : 5934528562 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A series of even numbers of $2n$ terms is arranged in ascending order. The median is :

$2n$ पदों तक सम संख्याओं को बढ़ते क्रम में व्यवस्थित किया गया है, तो इसकी माध्यिका होगी :

Options :

1. ✖ nth term
nवाँ पद

2. ✖ $(n + 1)$th term
$(n + 1)$वाँ पद

3. ✖ $\left(\frac{n+1}{2}\right)$th term

$\left(\frac{n+1}{2}\right)$वाँ पद

4. ✔ Mean of nth term and $(n+1)$th term

nवाँ तथा $(n+1)$वें पद का औसत

Question Number : 6 Question Id : 5934528563 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In an A. P., the first term is 2, the last term is 29 and sum of n terms is 155. Then the common difference of the A. P. is :

एक समानान्तर श्रेणी में प्रथम पद 2 है एवं अंतिम पद 29 है तथा प्रथम n पदों तक का योग 155 है, तो कॉमन डिफरेंस (पदों का अन्तराल) होगा :

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 7 Question Id : 5934528564 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The roots of the quadratic equation $2x^2 - x - 6 = 0$ are :

द्विघात समीकरण $2x^2 - x - 6 = 0$ के मूल होंगे :

Options :

1. ✖ $2, +\frac{3}{2}$

2. ✖ $-2, -\frac{3}{2}$

3. ✖ $-2, \frac{3}{2}$

4. ✔ $2, -\frac{3}{2}$

Question Number : 8 Question Id : 5934528565 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Find the value(s) of k, if the quadratic equation $3x^2 - k\sqrt{3}x + 4 = 0$ has equal roots :

द्विघात समीकरण $3x^2 - k\sqrt{3}x + 4 = 0$ के मूल बराबर हैं, तो k का मान ज्ञात करें :

Options :

1. ✖ ± 1

2. ✖ ± 2

3. ✖ ± 3

4. ✔ ± 4

Question Number : 9 Question Id : 5934528566 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Find the value of $\sin 38° - \cos 52°$:
$\sin 38° - \cos 52°$ का मान ज्ञात करें :

Options :

1. ✔ 0

2. ✖ 1

3. ✖ 2

4. ✖ $\sqrt{2}$

Question Number : 10 Question Id : 5934528567 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If two positive integers p and q are written as $p = a^2b^3$ and $q = a^3b$; a, b are prime numbers, then LCM $(p, q) \times$ HCF $(p, q) = \ldots.$?
यदि दो धनात्मक संख्याएँ p तथा q का मान लिखा है $p = a^2b^3$ तथा $q = a^3b$; जहाँ a तथा b अभाज्य संख्याएँ हैं, तो ल० स० व० $(p, q) \times$ म० स० व० $(p, q) = \ldots.$?

Options :

1. ✖ p

2. ✖ q

3. ✖ $\frac{p}{q}$

4. ✔ pq

Question Number : 11 Question Id : 5934528568 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Reena walked from A to B in the East 10 feet. Then she turned to the right and walked 3 feet. Again she turned to the right and walked 14 feet. How far is she from A ?
रीना पूरब की तरफ A से B 10 फीट चलती है। फिर वह दायें तरफ मुड़ती है और 3 फीट चलती है। फिर वह दाईं ओर मुड़ती है और 14 फीट चलती है। अब वह A से कितनी दूरी पर है ?

Options :

1. ✖ 4 feet
4 फीट

2. ✔ 5 feet
5 फीट

3. ✖ 24 feet
24 फीट

4. ✖ 27 feet
27 फीट

Question Number : 12 Question Id : 5934528569 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Arun said, "This girl is the wife of the grandson of my mother". Who is Arun to the girl ?
अरूण ने कहा, "यह स्त्री मेरी माँ के पौत्र की पत्नी है। अरूण उस स्त्री का क्या है ?

Options :

1. ✖ Father
पिता

2. ✔ Father-in-law
ससुर

3. ✖ Grandfather
दादा

4. ✖ Husband
पति

Question Number : 13 Question Id : 5934528570 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A girl facing north rotates 100 (degree) clockwise then 190 (degrees) anti clockwise. What is new direction of the girl ?

एक स्त्री उत्तर की ओर मुख करके खड़ी है तथा 100° घड़ी की दिशा में मुड़ती है फिर वह 190° घड़ी की उल्टी दिशा में मुड़ती है। अब वह किस दिशा में है ?

Options :

1. ✖ North-East
उत्तर-पूर्व

2. ✔ West
पश्चिम

3. ✖ South-East
दक्षिण-पूर्व

4. ✖ South
दक्षिण

Question Number : 14 Question Id : 5934528571 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Choose the word which is least like the other words in group ?

उस शब्द को चुनिए जो समूह के दूसरे शब्दों से कम से कम एक समान है ?

Options :

1. ✔ Calender
कैलेंडर

2. ✖ Day
दिन

3. ✖ Date
तिथि

4. ✖ Month
माह

Question Number : 15 Question Id : 5934528572 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Choose the word which is least like the other words in group ?
उस शब्द को चुनिए जो समूह के दूसरे शब्दों से कम से कम एक समान है ?

Options :

1. ✖ Zinc
जस्ता

2. ✖ Aluminium
एल्युमिनियम

3. ✔ Mercury
पारा

4. ✖ Copper
ताँबा

Question Number : 16 Question Id : 5934528573 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Choose the number which is different from others in the group ?
उस संख्या को चुनिए जो समूह के दूसरों से अलग है ?

Options :

1. ✔ 125

2. ✖ 81

3. ✖ 243

4. ✖ 729

Question Number : 17 Question Id : 5934528574 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Three of the following four are alike in a certain way and hence form a group. Which is the one that does not belong to that group ?
निम्न चार में से तीन एक तरह से हैं और एक समूह बनाते हैं। उनमें से कौन उस समूह में नहीं है ?

Options :

1. ✖ 2709

2. ✔ 3249

3. ✖ 2518

4. ✖ 1315

Question Number : 18 Question Id : 5934528575 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language ?
किसी कूट भाषा में COMPUTER को RFUVQNPC लिखा जाता है। उसी कूट भाषा में MEDICINE को कैसे लिखा जायेगा ?

Options :

1. ✖ MFEDJJOE

2. ✖ EOJDEJFM

3. ✔ EOJDJEFM

4. ✖ MFEJDJOE

Question Number : 19 Question Id : 5934528576 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH ?
यदि ROSE को 6821 से कोड किया जाता है। CHAIR को 73456 तथा PREACH को 961473 से कोड किया जाता है, तो SEARCH को कैसे कोड किया जायेगा ?

Options :

1. ✖ 246173

2. ✖ 214763

3. ✔ 214673

4. ✖ 216473

Question Number : 20 Question Id : 5934528577 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If Z = 2197 and R = 729. How would J be written in that code ?

यदि Z = 2197 तथा R = 729, तो इस कोड में J को कैसे लिखा जायेगा ?

Options :

1. ✖ 216

2. ✔ 125

3. ✖ 124

4. ✖ 512

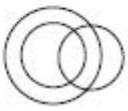
Question Number : 21 Question Id : 5934528578 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following diagrams indicates the best relation between Females, Doctors and Patients ?

निम्न में कौन-सा चित्र महिला, डॉक्टर तथा मरीज के सम्बन्धों का सबसे अच्छा सम्बन्ध बताता है ?

(A) (B) (C) (D) 

Options :

1. ✖ A

2. ✖ B

3. ✔ C

4. ✖ D

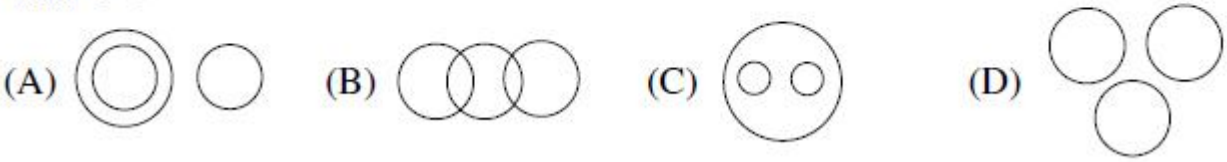
Question Number : 22 Question Id : 5934528579 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following diagrams indicates the best relation between Doctors, Teachers and Engineers ?

निम्न में कौन-सा चित्र डॉक्टर, अध्यापक तथा इंजीनियर के सम्बन्धों का सबसे अच्छा सम्बन्ध बताता है ?



Options :

1. ✖ A

2. ✔ B

3. ✖ C

4. ✖ D

Question Number : 23 Question Id : 5934528580 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If air is called green, green is called blue, blue is called sky, sky is called yellow, yellow is called water and water is called pink, then what is the colour of clear sky ?

यदि हवा को हरा, हरे को नीला, नीले को आकाश, आकाश को पीला, पीले को पानी तथा पानी को गुलाबी कहा जाता है, तो निर्मल आकाश का रंग कैसा है ?

Options :

1. ✔ Sky
आकाश

2. ✖ Blue
नीला

3. ✖ Yellow
पीला

4. ✖ Water
पानी

Question Number : 24 Question Id : 5934528581 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If E = 5 and READ is coded as 7, then what is the code of DEAR ?
यदि E = 5 तथा READ को 7 से कोड किया जाता है, तो DEAR के लिए क्या कोड किया जायेगा ?

Options :

1. ✖ 6

2. ✔ 7

3. ✖ 8

4. ✖ 9

Question Number : 25 Question Id : 5934528582 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If train is called bus, bus is called tractor, tractor is called car, car is called scooter, scooter is called bicycle and bicycle is called moped, which is used to plough a field ?
यदि ट्रेन को बस, बस को ट्रैक्टर, ट्रैक्टर को कार, कार को स्कूटर, स्कूटर को साईकिल तथा साईकिल को मोपेड कहा जाता है, तो खेत को जोतने के लिए क्या प्रयोग किया जायेगा ?

Options :

1. ✖ Train
ट्रेन

2. ✖ Bus
बस

3. ✖ Tractor
ट्रैक्टर

4. ✔ Car
कार

Section II CHEMISTRY

Section Id :	593452138
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	25
Number of Questions to be attempted :	25
Section Marks :	75
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	593452166
Question Shuffling Allowed :	Yes

Question Number : 26 Question Id : 5934528583 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which of the following pairs the two species are *not* isostructural ?
निम्न युग्मों में से किसमें दोनों प्रजातियों की समान संरचना ***नहीं*** होती है ?

Options :

1. ✖ CO_3^{2-} and NO_3^-
CO_3^{2-} और NO_3^-

2. ✖ PCl_4^+ and $SiCl_4$
PCl_4^+ और $SiCl_4$

3. ✔ PF_5 and BrF_5
PF_5 और BrF_5

4. ✖ AlF_6^{3-} and SF_6
AlF_6^{3-} और SF_6

Question Number : 27 Question Id : 5934528584 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following molecules/ions does *not* contain unpaired electrons ?
निम्न अणुओं/आयनों में से किसमें अयुग्मित इलेक्ट्रॉन ***नहीं*** मिलते हैं ?

Options :

1. ✖ O_2

2. ✔ O_2^{2-}

3. ✖ B_2

4. ✖ N_2^+

Question Number : 28 Question Id : 5934528585 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Among Al_2O_3, SiO_2, P_2O_5 and SO_3, the correct order of acid strength is :
Al_2O_3, SiO_2, P_2O_5 और SO_3 में अम्लीय शक्ति का सही क्रम है :

Options :

1. ✖ $Al_2O_3 < SiO_2 < SO_3 < P_2O_5$

2. ✖ $SiO_2 < SO_3 < Al_2O_3 < P_2O_5$

3. ✖ $SO_3 < P_2O_5 < SiO_2 < Al_2O_3$

4. ✔ $Al_2O_3 < SiO_2 < P_2O_5 < SO_3$

Question Number : 29 Question Id : 5934528586 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following molecules contains *no* π-bond ?

निम्न अणुओं में से किसमें π-बन्ध ***नहीं*** होता है ?

Options :

1. ✖ NO_2

2. ✖ SO_2

3. ✔ H_2O

4. ✖ CO_2

Question Number : 30 Question Id : 5934528587 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following structure is similar to graphite ?

निम्न में से किसकी संरचना ग्रेफाइट की तरह होती है ?

Options :

1. ✖ B_2H_6

2. ✖ B_2O_3

3. ✖ B_4C

4. ✔ BN

Question Number : 31 Question Id : 5934528588 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is an outer orbital complex and exhibits paramagnetic behaviour ?

निम्न में से कौन एक बाह्य कक्षक संकुल है तथा अनुचुम्बकीय व्यवहार करता है ?

Options :

1. ✔ $[Ni(NH_3)_6]^{2+}$

2. ✖ $[Co(NH_3)_6]^{3+}$

3. ✖ $[Cr(NH_3)_6]^{3+}$

4. ✖ $[Zn(NH_3)_6]^{2+}$

Question Number : 32 Question Id : 5934528589 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is a mineral of iron ?

निम्न में से कौन लोहे का एक खनिज है ?

Options :

1. ✖ Pyrolusite
पाइरोलुसाइट

2. ✔ Magnetite
मैग्नेटाइट

3. ✖ Malachite
मैलाकाइट

4. ✖ Cassiterite
कैसिटेराइट

Question Number : 33 Question Id : 5934528590 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

When $S_2O_8^{2-}$ oxidizes Fe^{2+}, then product formed is :

जब $S_2O_8^{2-}$ ऑक्सीकृत करता है Fe^{2+} को, तब निम्न उत्पाद बनता है :

Options :

1. ✖ $S_2O_6^{2-}$

2. ✔ SO_4^{2-}

3. ✖ $S_2O_3^{2-}$

4. ✖ SO_5^{2-}

Question Number : 34 Question Id : 5934528591 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Out of the following, which one does *not* liberate N_2 gas on heating ?

निम्न में से कौन गर्म करने पर N_2 गैस उत्सर्जित ***नहीं*** करता है ?

Options :

1. ✖ $NaNO_2 + NH_4Cl$

2. ✖ $Ba(N_3)_2$

3. ✔ $O_2 + NO$

4. ✖ $(NH_4)_2Cr_2O_7$

Question Number : 35 Question Id : 5934528592 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Bonds present in NH_3 and CCl_4 are respectively :

NH_3 और CCl_4 में उपस्थित बन्ध क्रमशः :

Options :

1. ✖ Covalent and ionic
सहसंयोजक व आयनिक

2. ✖ Ionic and covalent
आयनिक व सहसंयोजक

3. ✔ Both covalent
दोनों सहसंयोजक

4. ✖ Both ionic
दोनों आयनिक

Question Number : 36 Question Id : 5934528593 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Argentite is a mineral of :
अर्जेन्टाइट किसका खनिज है ?

Options :

1. ✖ Iron
लौह

2. ✖ Copper
ताँबा

3. ✔ Silver
चाँदी

4. ✖ Aluminium
एल्युमिनियम

Question Number : 37 Question Id : 5934528594 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is structurally different from the rest ?
निम्न में से कौन संरचनात्मक रुप से बाकियों से भिन्न आकृति है ?

Options :

1. ✔ XeF_4

2. ✖ BF_4^-

3. ✖ CH_4

4. ✖ NH_4^+

Question Number : 38 Question Id : 5934528595 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Red Lead is :

रेड लेड (सिंदूर) होता है :

Options :

1. ✖ PbO

2. ✖ PbO_2

3. ✔ Pb_3O_4

4. ✖ Pb_2O_3

Question Number : 39 Question Id : 5934528596 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The characteristic of thallium to exhibit more than one oxidation state can be correlated with :

थैलियम एक से अधिक ऑक्सीकरण अवस्था दर्शाता है। इस गुण को निम्न में से किसके साथ सहसम्बन्धित किया जा सकता है ?

Options :

1. ✔ inert pair effect
अक्रिय युग्म प्रभाव

2. ✖ atomic radius
परमाणु त्रिज्या

3. ✖ electron affinity
इलेक्ट्रॉन बन्धुता

4. ✖ amphoteric nature
उभयधर्मिता

Question Number : 40 Question Id : 5934528597 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Chemical formula of phosgene is :
फॉसजीन का रासायनिक सूत्र है :

Options :

1. ✖ PH_3

2. ✖ PCl_3

3. ✖ $POCl_3$

4. ✔ $COCl_2$

Question Number : 41 Question Id : 5934528598 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Electrically neutral charged dipolar ion is called :
विद्युत रूप से तटस्थ आवेशित द्विध्रुवीय आयन को कहा जाता है :

Options :

1. ✖ Amphoteric ion
एम्फोटेरिक आयन

2. ✔ Zwitter ion
ज्वीटर आयन

3. ✖ Lewis acid
लुईस एसिड

4. ✖ Anion
ऋणायन

Question Number : 42 Question Id : 5934528599 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hydrolysis of Table Sugar gives :
टेबल शुगर का हाइड्रोलिसिस देता है :

Options :

1. ✔ Glucose and Fructose
ग्लूकोज और फ्रुक्टोज

2. ✖ Glucose and Maltose
ग्लूकोज और माल्टोज

3. ✖ Glucose and Dextrose
ग्लूकोज और डेक्सट्रोज

4. ✖ Galactose and Fructose
गैलेक्टोज और फ्रुक्टोज

Question Number : 43 Question Id : 5934528600 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Iodoform test is given by :
आयोडोफॉर्म परीक्षण किसके द्वारा दिया जाता है ?

Options :

1. ✔ CH_3CH_2OH

2. ✖ C_6H_5CHO

3. ✖ $CH_3CH_2COCH_2CH_3$

4. ✖ $HCHO$

Question Number : 44 Question Id : 5934528601 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The geometrical isomerism is shown by :

ज्यामितीय समरूपता द्वारा दिखाया गया है :

Options :

1. ✖ 1,1-diphenyl-1-butene
1,1-डाईफिनाइल-1-ब्यूटीन

2. ✖ 2-phenyl-1-butene
2-फिनाइल-1-ब्यूटीन

3. ✔ 2-phenyl-2-butene
2-फिनाइल-2-ब्यूटीन

4. ✖ 3-phenyl-1-butene
3-फिनाइल-1-ब्यूटीन

Question Number : 45 Question Id : 5934528602 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The secondary alcohol is easily converted into a ketone by the reagent :

द्वितीयक अल्कोहल आसानी से कीटोन में परिवर्तित हो जाता है एक अभिकर्मक द्वारा :

Options :

1. ✖ $Al(OCHMe_2)_3$/isopropanol
$Al(OCHMe_2)_3$/आइसोप्रोपेनॉल

2. ✖ $Al(OCMe_3)_3$/isopropanol
$Al(OCMe_3)_3$/आइसोप्रोपेनॉल

3. ✔ $Al(OCMe_3)_3$/acetone
$Al(OCMe_3)_3$/एसिटोन

4. ✖ $Al(OCHMe_2)_3$/quinine
$Al(OCHMe_2)_3$/कुइनिन

Question Number : 46 Question Id : 5934528603 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The product 'A' of following reaction is :

निम्नलिखित अभिक्रिया का उत्पाद 'ए' है :

$$C_6H_5CHO + H_2C\begin{matrix} \diagup COOEt \\ \diagdown COOEt \end{matrix} \xrightarrow[2.\ H_3O^+/\Delta]{1.\ NaOEt} A$$

Options :

1. ✔ $C_6H_5CH = CH - COOH$

2. ✖ $CH_3CH = CH - COOH$

3. ✖ $C_6H_5CH = CH - CHO$

4. ✖ $C_6H_5CH = CH_2OH$

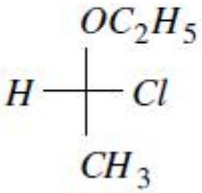
Question Number : 47 Question Id : 5934528604 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

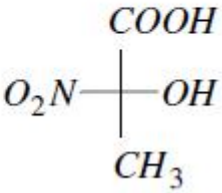
Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The configuration of following compounds is :

निम्न यौगिकों की सही संरचना है :

(i) 

(ii) 

Options :

1. ✔ R and R
   R और R

2. ✖ S and R
   S और R

3. ✖ S and S
   S और S

4. ✖ R and S
   R और S

Question Number : 48 Question Id : 5934528605 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

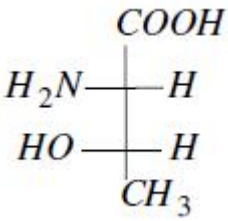
Correct Marks : 3 Wrong Marks : 1

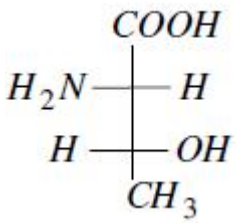
Question Label : Multiple Choice Question

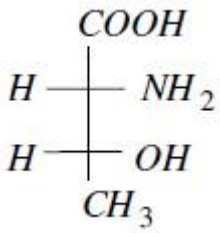
The structure of (2S 3R) 2-amino-3-hydroxybutanoic acid is :

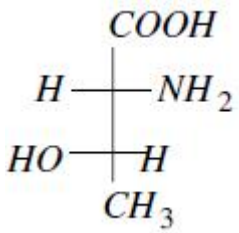
(2S 3R) 2-अमीनो-3-हाइड्रॉक्सीब्यूटेनोइक एसिड की सही संरचना है :

Options :

1. ✖ 

2. ✔ 

3. ✖ 

4. ✖ 

Question Number : 49 Question Id : 5934528606 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In the following reaction the expected product is :

निम्नलिखित प्रतिक्रिया में अपेक्षित उत्पाद है :

$$CH_3CH = CH_2 \xrightarrow[2.\ H_2O_2/OH^-]{1.\ BH_3} \ ?$$

Options :

1. ✔ Propan-1-ol
प्रोपेन-1-ओल

2. ✖ Propan-1-al
प्रोपेन-1-ऑल

3. ✖ Propan-2-ol
प्रोपेन -2-ओल

4. ✖ Acetaldehyde
एसीटैल्डिहाइड

Question Number : 50 Question Id : 5934528607 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hopkins-Cole Test is used to identify :
हॉपकिन्स-कोल टेस्ट का उपयोग पहचान करने के लिए किया जाता है :

Options :

1. ✖ Tyrosine
टायरोसीन

2. ✖ Urea
यूरिया

3. ✔ Tryptophane
ट्रिप्टोफेन

4. ✖ Hemoglobin
हीमोग्लोबिन

Section III PHYSICS AND MATHEMATICS

Section Id :	593452139
Section Number :	3
Section type :	Online
Mandatory or Optional :	Optional
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	150
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	593452167

Question Shuffling Allowed : Yes

Question Number : 51 Question Id : 5934528608 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Fermi is the unit of :
फर्मी इकाई है :

Options :

1. ✔ Length
लम्बाई की

2. ✖ Mass
द्रव्यमान की

3. ✖ Radioactivity
रेडियोसक्रियता की

4. ✖ Energy
ऊर्जा की

Question Number : 52 Question Id : 5934528609 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is a vector quantity ?
निम्न में कौन सदिश राशि है ?

Options :

1. ✖ Energy
ऊर्जा

2. ✖ Angle
कोण

3. ✔ Angular Velocity
कोणीय वेग

4. ✖ Speed
चाल

Question Number : 53 Question Id : 5934528610 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A man of mass *m* sitting in a cage measures his weight while cage along with man falls freely under gravity. The weight recorded by man is (g-acceleration due to gravity) :

m द्रव्यमान का एक व्यक्ति एक पिंजरे में बैठकर अपना भार नापता है जबकि पिंजरा आदमी सहित स्वतन्त्र रूपेण गुरुत्व के अधीन गिरता है। यदि गुरुत्वीय त्वरण g है, तो आदमी द्वारा लिया गया भार है :

Options :

1. ✖ mg
mg

2. ✔ 0
0

3. ✖ More than mg
mg से अधिक

4. ✖ Smaller than mg
mg से कम

Question Number : 54 Question Id : 5934528611 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The path of a projectile is of the shape of :

किसी प्रक्षेप्य के पथ का आकार होता है :

Options :

1. ✔ a parabola
परवलयाकार

2. ✖ a hyperbola
अति परवलयाकार

3. ✖ a circle
वृत्ताकार

4. ✖ an ellipse
दीर्घवृत्ताकार

Question Number : 55 Question Id : 5934528612 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An engine developes 10 kw power. How much time will it take to lift a mass of 200 kg to a height of 40 m ($g = 10\ m/s^2$) ?

10 kw शक्ति वाले इन्जन को 200 kg द्रव्यमान को 40 m की ऊँचाई तक उठाने में कितना समय लगेगा ($g = 10\ m/s^2$) ?

Options :

1. ✖ 4s

2. ✖ 5s

3. ✔ 8s

4. ✖ 10s

Question Number : 56 Question Id : 5934528613 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The escape velocity from the earth is 11 km/s. The escape velocity from a planet having twice the radius and same mean density as the earth is :

पृथ्वी से पलायन वेग 11 km/s है। एक ग्रह, जिसकी त्रिज्या पृथ्वी की दुगुनी और औसत घनत्व पृथ्वी के बराबर है, से पलायन वेग होगा :

Options :

1. ✔ 22 km/s

2. ✖ 11 km/s

3. ✖ 5.5 km/s

4. ✖ 165 km/s

Question Number : 57 Question Id : 5934528614 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The value of g at any place decreases by 2%, barometric height of mercury :

किसी स्थान पर यदि g का मान 2% घट जाये, तो पारे की बैरोमीट्रिक ऊँचाई :

Options :

1. ✔ increases by 2%
2% बढ़ जायेगी

2. ✖ decreases by 2%
2% घट जायेगी

3. ✖ remains unchanged
अपरिवर्तित रहेगी

4. ✖ may increase or decrease
बढ़ या घट सकती है

Question Number : 58 Question Id : 5934528615 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If temperature of a gas is increased from 27°C to 627°C, the mean square velocity of molecules of the gas becomes :

यदि एक गैस का ताप $27^\circ C$ से बढ़ाकर $627^\circ C$ कर दिया जाता है, तो गैस के अणुओं का माध्य वर्ग वेग हो जाता है :

Options :

1. ✔ 3 times
3 गुना

2. ✖ $\sqrt{3}$ times
$\sqrt{3}$ गुना

3. ✖ 9 times
9 गुना

4. ✖ 5 times
5 गुना

Question Number : 59 Question Id : 5934528616 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The internal energy of an ideal gas depends on :

किसी आदर्श गैस की आन्तरिक ऊर्जा निर्भर करती है :

Options :

1. ✖ Pressure
दाब पर

2. ✖ Volume
आयतन पर

3. ✔ Temperature
ताप पर

4. ✖ Molecular size
अणु के आकार पर

Question Number : 60 Question Id : 5934528617 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An object executes SHM along x-axis given by $x = 2\cos\left(\frac{t}{2}+\frac{\pi}{4}\right)$, where x is in metres. Its maximum acceleration is :

किसी सरल आवर्त गति वाली वस्तु का विस्थापन है, $x = 2\cos\left(\frac{t}{2}+\frac{\pi}{4}\right)$, जहाँ x मी० में है, इसका अधिकतम त्वरण है :

Options :

1. ✖ $0.05\ m/s^2$

2. ✔ $0.5\ m/s^2$

3. ✖ $2\ m/s^2$

4. ✖ $\frac{9}{4}\ m/s^2$

Question Number : 61 Question Id : 5934528618 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is a mechanical wave ?

निम्न में कौन यान्त्रिक तरंग है ?

Options :

1. ✖ Infrared waves
अवरक्त तरंगें

2. ✖ X-rays
X-किरणें

3. ✖ Microwaves
माइक्रोवेव्स

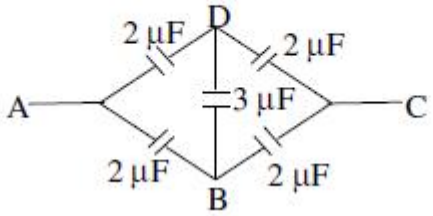
4. ✔ Ultrasonic waves
पराश्रव्य तरंगें

Question Number : 62 Question Id : 5934528619 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In given combination of capacitors the capacity between A and C is :
संधारित्रों के दिये गये संयोजन में A और C के बीच धारिता है :



Options :

1. ✖ 4 μF

2. ✖ 7 μF

3. ✔ 2 μF

4. ✖ 5 μF

Question Number : 63 Question Id : 5934528620 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A metal sphere is charged with a charge Q. The radius of sphere is R. The electric field at a distance $r < R$ is given by (r is distance of point from sphere centre).

एक धातु का गोला Q आवेश से आवेशित किया गया है। गोले की त्रिज्या R है। $r < R$ दूरी पर वैद्युत् क्षेत्र (r गोले के केन्द्र से बिन्दु की दूरी है) होगा :

Options :

1. ✔ 0

2. ✖ $\frac{Q}{4\pi\epsilon_0 r^2}$

3. ✖ $\frac{Q}{4\pi\epsilon_0 r}$

4. ✖ ∞

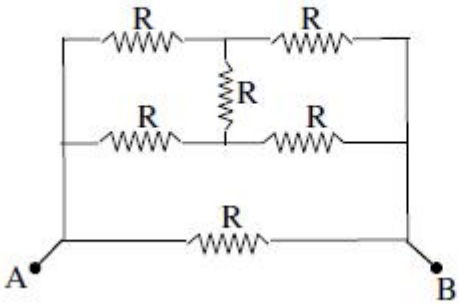
Question Number : 64 Question Id : 5934528621 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In the combination of resistanes shown in Fig., the resistance between A and B is :

चित्र में दर्शाये प्रतिरोधों के संयोजन में A और B के बीच प्रतिरोध है :



Options :

1. ✖ R

2. ✔ $\frac{R}{2}$

3. ✖ $2R$

4. ✖ 4R

Question Number : 65 Question Id : 5934528622 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Two bulbs of 40W and 60W rating at 220V are connected in series to 220V supply. The combination has rating :

220V पर 40W और 60W के दो बल्ब श्रेणी में जोड़कर 220V की सप्लाई से जोड़े गये हैं। संयोजन की शक्ति है :

Options :

1. ✔ 24W

2. ✖ 100W

3. ✖ 20W

4. ✖ 50W

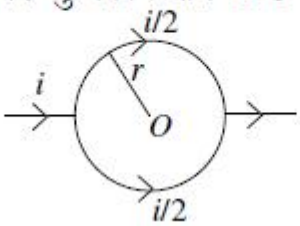
Question Number : 66 Question Id : 5934528623 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In the Fig. shown the magnetic field B at the point O is given by :

दर्शाये चित्र में बिन्दु O पर चुम्बकीय क्षेत्र B है :



Options :

1. ✖ ∞

2. ✖ $\frac{\mu_0 i}{2r}$

3. ✔ 0

4. ✖ $\frac{\mu_0 i}{2\pi r}$

Question Number : 67 Question Id : 5934528624 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

At equator the dip angle is :

भूमध्य रेखा पर नति कोण होता है :

Options :

1. ✖ 90°

2. ✔ 0°

3. ✖ 45°

4. ✖ 30°

Question Number : 68 Question Id : 5934528625 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In an AC circuit a resistance R = 4Ω is connected in series with a capacitor of reactance 3Ω. The circuit impedance is :

एक AC परिपथ में एक 4Ω का प्रतिरोध एक 3Ω प्रतिबाधा वाले संधारित्र से श्रेणी क्रम में जुड़ा है। परिपथ की प्रतिबाधा है :

Options :

1. ✖ 7Ω

2. ✖ $\frac{12}{7}\Omega$

3. ✖ 1Ω

4. ✔ 5Ω

Question Number : 69 Question Id : 5934528626 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Dimension of $\mu_0 \epsilon_0$ is :

$\mu_0 \epsilon_0$ की विमा है :

Options :

1. ✖ L^2/T^2

2. ✔ T^2/L^2

3. ✖ $\frac{L}{T}$

4. ✖ $\frac{T}{L}$

Question Number : 70 Question Id : 5934528627 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of following has zero rest mass ?
निम्न में किसका स्थिर द्रव्यमान शून्य है ?

Options :

1. ✖ Electron
इलेक्ट्रॉन

2. ✖ Neutron
न्यूट्रॉन

3. ✖ Positron
पॉजिट्रॉन

4. ✔ Photon
फोटॉन

Question Number : 71 Question Id : 5934528628 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Two waves of amplitudes 5 and 2 units interfere to produce maximum and minimum intensities in ratio :
5 और 2 इकाई आयामों वाली दो तरंगें व्यतिकरण करके अधिकतम और न्यूनतम तीव्रताओं का अनुपात उत्पन्न करती हैं :

Options :

1. ✖ 7 : 3

2. ✔ 49 : 9

3. ✖ 29 : 21

4. ✖ 25 : 4

Question Number : 72 Question Id : 5934528629 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Penetration of light into geometrical shadow is called :

ज्यामितीय छाया में प्रकाश का प्रवेश कहलाता है :

Options :

1. ✖ Polarization
ध्रुवण

2. ✖ Interference
व्यतिकरण

3. ✖ Refraction
अपवर्तन

4. ✔ Diffraction
विवर्तन

Question Number : 73 Question Id : 5934528630 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Red colour during sunset and sunrise is a result of :

सूर्यास्त और सूर्योदय के समय लाल रंग का कारण है :

Options :

1. ✖ Refraction
अपवर्तन

2. ✖ Reflection
परावर्तन

3. ✖ Interference
व्यतिकरण

4. ✔ Scattering
प्रकीर्णन

Question Number : 74 Question Id : 5934528631 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is semiconductor ?

निम्न में कौन अर्धचालक है ?

Options :

1. ✖ Hg

2. ✔ Si

3. ✖ Sn

4. ✖ Cd

Question Number : 75 Question Id : 5934528632 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Energy produced in Sun is due to :

सूर्य में ऊर्जा की उत्पत्ति का कारण है :

Options :

1. ✖ Nuclear fission
नाभिकीय विखण्डन

2. ✔ Nuclear fusion
नाभिकीय संलयन

3. ✖ Chemical reaction
रासायनिक अभिक्रिया

4. ✖ Collision of particles
कणों के संघट्ट

Question Number : 76 Question Id : 5934528633 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $\mathbb{R}^*$ is a relation on the set $\mathbb{R}$ of real numbers defined by $(a,b) \in \mathbb{R}^* \Leftrightarrow 1 + a^2b^2 > 0 \; \forall a, b \in \mathbb{R}$, then $\mathbb{R}^*$ is :

यदि वास्तविक संख्याओं के समुच्चय $\mathbb{R}$ पर एक सम्बन्ध $\mathbb{R}^*$ $(a,b) \in \mathbb{R}^* \Leftrightarrow 1 + a^2b^2 > 0 \; \forall a, b \in \mathbb{R}$, द्वारा परिभाषित है, तो $\mathbb{R}^*$ है :

Options :

1. ✖ Reflexive and symmetric but not transitive
स्वतुल्य और सम्मित किन्तु संक्रमक नहीं

2. ✖ Reflexive and transitive but not symmetic
स्वतुल्य और संक्रमक किन्तु सम्मित नहीं

3. ✖ Symmetric and transitive but not reflexive
सम्मित और संक्रमक किन्तु स्वतुल्य नहीं

4. ✔ An equivalence relation
एक तुल्यता सम्बन्ध

Question Number : 77 Question Id : 5934528634 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If a function $f : \mathbb{R} \to \mathbb{R}$ is defined by $f(x) = \begin{cases} \frac{|x|}{x}, & x \neq 0 \\ 0, & x = 0 \end{cases}$ and $g : \mathbb{R} \to \mathbb{R}$ is defined by $g(x) \begin{cases} 1, & 0 \leq x < \frac{1}{2} \\ -1, & \frac{1}{2} \leq x < 1 \\ 0, & \text{otherwise} \end{cases}$, then $f + g$ is discontinuous at the points :

यदि एक फलन $f : \mathbb{R} \to \mathbb{R}$ $f(x) = \begin{cases} \frac{|x|}{x}, & x \neq 0 \\ 0, & x = 0 \end{cases}$ द्वारा परिभाषित है तथा $g : \mathbb{R} \to \mathbb{R}$, $g(x) \begin{cases} 1, & 0 \leq x < \frac{1}{2} \\ -1, & \frac{1}{2} \leq x < 1 \\ 0, & \text{अन्यथा} \end{cases}$ द्वारा परिभाषित है, तो $f + g$ निम्नलिखित बिन्दुओं पर असतत है :

Options :

1. ✔ $0, \frac{1}{2}, 1$

2. ✖ $0, \frac{1}{2}, 2$

3. ✖ $0, 1, 3$

4. ✖ $\frac{1}{2}, 1, 4$

Question Number : 78 Question Id : 5934528635 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $f:\left[0,\frac{\pi}{2}\right]\to \mathbb{R}$ and $g:\left[0,\frac{\pi}{2}\right]\to \mathbb{R}$ are defined by $f(x)=\sin x\ \forall x\in\left[0,\frac{\pi}{2}\right]$, $g(x)=\cos x\ \forall x\in\left[0,\frac{\pi}{2}\right]$, then $f+g$ is :

यदि $f:\left[0,\frac{\pi}{2}\right]\to \mathbb{R}$ और $g:\left[0,\frac{\pi}{2}\right]\to \mathbb{R}$, $f(x)=\sin x\ \forall x\in\left[0,\frac{\pi}{2}\right]$, $g(x)=\cos x\ \forall x\in\left[0,\frac{\pi}{2}\right]$ द्वारा परिभाषित है, तब $f+g$ है :

Options :

1. ✖ One-one, continuous on $\left[0,\frac{\pi}{2}\right]$

एकैकी, सतत $\left[0,\frac{\pi}{2}\right]$ पर

2. ✔ Many-one, continuous on $\left[0,\frac{\pi}{2}\right]$

अनेकैकी, सतत $\left[0,\frac{\pi}{2}\right]$ पर

3. ✖ One-one, discontinuous on $\left[0,\frac{\pi}{2}\right]$

एकैकी, असतत $\left[0,\frac{\pi}{2}\right]$ पर

Many-one, discontinuous on $\left[0, \frac{\pi}{2}\right]$

अनेकैकी, असतत $\left[0, \frac{\pi}{2}\right]$ पर

4. ✖

Question Number : 79 Question Id : 5934528636 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $f:(0,\infty)\to(0,\infty)$ and $g:(0,\infty)\to(0,\infty)$ are defined by $f(x)=\frac{1}{x}\ \forall x\in(0,\infty),\ g(x)=\frac{1}{x^2}\ \forall x\in(0,\infty)$, then $\forall x\in(0,\infty)$:

यदि $f:(0,\infty)\to(0,\infty)$ और $g:(0,\infty)\to(0,\infty)$ $f(x)=\frac{1}{x}\ \forall x\in(0,\infty),\ g(x)=\frac{1}{x^2}\ \forall x\in(0,\infty)$ द्वारा परिभाषित हैं, तो $\forall x\in(0,\infty)$ है :

Options :

1. ✔ $fog = gof$

2. ✖ $2(fog) = gof$

3. ✖ $fog = 3(gof)$

4. ✖ $4(fog) = gof$

Question Number : 80 Question Id : 5934528637 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $f:(0,\infty)\to(0,\infty)$ and $g:(0,\infty)\to(0,\infty)$ are defined by $f(x)=x^2\forall x\in(0,\ \infty)$, $g(x)=\frac{1}{x^2}\ \forall x\in(0,\infty)$, then $(fog)(x)-(gof)(x), \forall x\in(0,\infty)$, is :

यदि $f:(0,\infty)\to(0,\infty)$ और $g:(0,\infty)\to(0,\infty)$ $f(x)=x^2\forall x\in(0,\ \infty)$, $g(x)=\frac{1}{x^2}\ \forall x\in(0,\infty)$ द्वारा परिभाषित हैं, तो $(fog)(x)-(gof)(x), \forall x\in(0,\infty)$, है :

Options :

1. ✔ 0

2. ✖ x^2

3. ✖ $\frac{1}{x^2}$

4. ✖ $x^2+\frac{1}{x^2}$

Question Number : 81 Question Id : 5934528638 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

$\mathbb{N}$ is a set of all natural numbers. An operation * is defined as $*:\mathbb{N}^2\times\mathbb{N}^2\to\mathbb{N}^2$, $(a,b)*(c,d)=(ac,bd)\ \forall\ a,b,c,d\in\mathbb{N}$. Then * ais :

$\mathbb{N}$ सभी प्राकृतिक संख्याओं का समुच्चय है। एक संक्रिया $*:\mathbb{N}^2\times\mathbb{N}^2\to\mathbb{N}^2$, $(a,b)*(c,d)=(ac,bd)\ \forall\ a,b,c,d\in\mathbb{N}$ द्वारा परिभाषित है। तब * है :

Options :

1. ✖ Commutative but not associative
क्रम विनिमेय किन्तु साहचर्य नहीं

2. ✖ Associative but not commutative
साहचर्य किन्तु क्रम विनिमेय नहीं

3. ✔ Commutative and associative
क्रम विनिमेय और साहचर्य

4. ✖ Neither commutative nor associative
न तो क्रम विनिमेय न तो साहचर्य

Question Number : 82 Question Id : 5934528639 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Define $f : \mathbb{R} \times \mathbb{R} \to \mathbb{R} * \mathbb{R}$ by $f(x, y) = (y, x) \forall (x, y) \in \mathbb{R} * \mathbb{R}$:

$f : \mathbb{R} \times \mathbb{R} \to \mathbb{R} * \mathbb{R}$ $f(x, y) = (y, x) \forall (x, y) \in \mathbb{R} * \mathbb{R}$ द्वारा परिभाषित है तो :

Options :

1. ✖ f is 1-1 but f^{-1} is not 1-1
f एकैकी है किन्तु f^{-1} एकैकी नहीं है

2. ✖ f & f^{-1} are 1-1 but f^{-1} is not continuous
f एवं f^{-1} एकैकी है किन्तु f^{-1} सतत नहीं है

3. ✖ f & f^{-1} are 1-1 but f is not continuous
f एवं f^{-1} एकैकी है किन्तु f सतत नहीं है

4. ✔ f & f^{-1} are 1-1 and continuous
f एवं f^{-1} एकैकी तथा सतत हैं

Question Number : 83 Question Id : 5934528640 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $A = \tan^{-1}\left(\frac{\sqrt{1+\cos x}+\sqrt{1-\cos x}}{\sqrt{1+\cos x}-\sqrt{1-\cos x}}\right)$ if $0 < x < \pi/2$ and $B = \tan^{-1}\left(\frac{\sqrt{1+\cos x}+\sqrt{1-\cos x}}{\sqrt{1+\cos x}-\sqrt{1-\cos x}}\right)$ if $\pi < x < \frac{3\pi}{2}$, then $A + B$ is :

यदि $A = \tan^{-1}\left(\frac{\sqrt{1+\cos x}+\sqrt{1-\cos x}}{\sqrt{1+\cos x}-\sqrt{1-\cos x}}\right)$ यदि $0 < x < \pi/2$ और $B = \tan^{-1}\left(\frac{\sqrt{1+\cos x}+\sqrt{1-\cos x}}{\sqrt{1+\cos x}-\sqrt{1-\cos x}}\right)$ यदि $\pi < x < \frac{3\pi}{2}$, तो $A + B$ है :

Options :

1. ✖ $\frac{\pi}{2}$

2. ✖ π

3. ✖ $\frac{\pi}{4}$

4. ✔ Not defined

परिभाषित नहीं

Question Number : 84 Question Id : 5934528641 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $\tan^{-1}\left(\frac{1}{4}\right)+2\tan^{-1}\left(\frac{1}{5}\right)+\tan^{-1}\left(\frac{1}{6}\right)+\tan^{-1}\left(\frac{1}{x}\right)=\frac{\pi}{4}$, then x is :

यदि $\tan^{-1}\left(\frac{1}{4}\right)+2\tan^{-1}\left(\frac{1}{5}\right)+\tan^{-1}\left(\frac{1}{6}\right)+\tan^{-1}\left(\frac{1}{x}\right)=\frac{\pi}{4}$, तब x है :

Options :

1. ✖ $\frac{431}{9}$

2. ✖ $\frac{461}{9}$

3. ✔ $-\frac{461}{9}$

4. ✖ $-\frac{431}{9}$

Question Number : 85 Question Id : 5934528642 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $\begin{bmatrix} x+3 & z+8 & 2y-7 \\ 4x+6 & a-1 & 0 \\ b-3 & 3b & z+2c \end{bmatrix} = \begin{bmatrix} 0 & +6 & 3y-2 \\ 2x & -3 & 2c+z \\ 2b+4 & -21 & 0 \end{bmatrix}$, then $\begin{bmatrix} a & b & c \\ x & y & z \end{bmatrix}$ is :

यदि $\begin{bmatrix} x+3 & z+8 & 2y-7 \\ 4x+6 & a-1 & 0 \\ b-3 & 3b & z+2c \end{bmatrix} = \begin{bmatrix} 0 & +6 & 3y-2 \\ 2x & -3 & 2c+z \\ 2b+4 & -21 & 0 \end{bmatrix}$, तो $\begin{bmatrix} a & b & c \\ x & y & z \end{bmatrix}$ है :

Options :

1. ✔ $\begin{bmatrix} -2 & -7 & 1 \\ -3 & -5 & -2 \end{bmatrix}$

2. ✖ $\begin{bmatrix} -2 & -7 & 1 \\ -5 & -3 & -2 \end{bmatrix}$

3. ✖ $\begin{bmatrix} -7 & -2 & 1 \\ -3 & -5 & -2 \end{bmatrix}$

4. ✖ $\begin{bmatrix} -2 & 1 & -7 \\ -3 & -2 & -5 \end{bmatrix}$

Question Number : 86 Question Id : 5934528643 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The value of $\cos\frac{\pi}{4}\begin{bmatrix} \cos\frac{\pi}{4} & \sin\frac{\pi}{4} \\ -\sin\frac{\pi}{4} & \cos\frac{\pi}{4} \end{bmatrix} + \sin\frac{\pi}{4}\begin{bmatrix} \sin\frac{\pi}{4} & -\cos\frac{\pi}{4} \\ \cos\frac{\pi}{4} & \sin\frac{\pi}{4} \end{bmatrix}$ is :

$\cos\frac{\pi}{4}\begin{bmatrix} \cos\frac{\pi}{4} & \sin\frac{\pi}{4} \\ -\sin\frac{\pi}{4} & \cos\frac{\pi}{4} \end{bmatrix} + \sin\frac{\pi}{4}\begin{bmatrix} \sin\frac{\pi}{4} & -\cos\frac{\pi}{4} \\ \cos\frac{\pi}{4} & \sin\frac{\pi}{4} \end{bmatrix}$ का मान है :

Options :

1. ✖ $\begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}$

2. ✖ $\begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$

3. ✔ $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

4. ✖ $\begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$

Question Number : 87 Question Id : 5934528644 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $A=\begin{bmatrix}0&0&0&0&1\\1&0&0&0&0\\0&1&0&0&0\\0&0&1&0&0\\0&0&0&1&0\end{bmatrix}$ and $A^n=I_5$, then the least positive integral value of n is :

यदि $A=\begin{bmatrix}0&0&0&0&1\\1&0&0&0&0\\0&1&0&0&0\\0&0&1&0&0\\0&0&0&1&0\end{bmatrix}$ और $A^n=I_5$, तो n का न्यूनतम धनात्मक पूर्णांक मान है :

Options :

1. ✖ 2

2. ✖ 3

3. ✖ 4

4. ✔ 5

Question Number : 88 Question Id : 5934528645 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $A=\begin{bmatrix}\cos\frac{\pi}{100} & i\sin\frac{\pi}{100}\\ i\sin\frac{\pi}{100} & \cos\frac{\pi}{100}\end{bmatrix}$, then A^{100} is :

यदि $A=\begin{bmatrix}\cos\frac{\pi}{100} & i\sin\frac{\pi}{100}\\ i\sin\frac{\pi}{100} & \cos\frac{\pi}{100}\end{bmatrix}$, तो A^{100} है :

Options :

1. ✔ $\begin{bmatrix} -1 & 0 \\ 0 & -1 \end{bmatrix}$

2. ✖ $\begin{bmatrix} 1 & i\sin\frac{\pi}{100} \\ 0 & -1 \end{bmatrix}$

3. ✖ $\begin{bmatrix} 0 & i\sin\frac{\pi}{100} \\ 0 & -1 \end{bmatrix}$

4. ✖ $\begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$

Question Number : 89 Question Id : 5934528646 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $A = \begin{bmatrix} 5 & 3 \\ 12 & 7 \end{bmatrix}^{-1}$, $I_2 = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, then :

यदि $A = \begin{bmatrix} 5 & 3 \\ 12 & 7 \end{bmatrix}^{-1}$, $I_2 = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, तो :

Options :

1. ✖ $A^2 - 13A + I_2 = 0$

2. ✔ $A^2 - 12A - I_2 = 0$

3. ✖ $A^2 - 14A + I_2 = 0$

4. ✖ $A^2 + 12A + I_2 = 0$

Question Number : 90 Question Id : 5934528647 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $A=\begin{bmatrix}1 & 2 & 0\\ 3 & -4 & 5\\ 0 & -1 & 3\end{bmatrix}$, then $A^3-14A+26I_3$ is :

यदि $A=\begin{bmatrix}1 & 2 & 0\\ 3 & -4 & 5\\ 0 & -1 & 3\end{bmatrix}$, तब $A^3-14A+26I_3$ है :

Options :

1. ✖ $2I_3$

2. ✖ $3I_3$

3. ✖ $4I_3$

4. ✔ I_3

Question Number : 91 Question Id : 5934528648 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If α, β, γ are the roots of the equation :

$$\begin{vmatrix} x & -6 & -1\\ 2 & -3x & x-3\\ -3 & 2x & x+2\end{vmatrix}=0,$$

then $\alpha+\beta+\gamma+100$ is :

यदि α, β, γ समीकरण :

$$\begin{vmatrix} x & -6 & -1\\ 2 & -3x & x-3\\ -3 & 2x & x+2\end{vmatrix}=0$$ के मूल हैं, तब $\alpha+\beta+\gamma+100$ है :

Options :

1. ✖ 98

2. ✖ 99

3. ✖ 97

4. ✔ 100

Question Number : 92 Question Id : 5934528649 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If a function $f : \mathbb{R} \to \mathbb{R}$ is defined by :

$$f(x) = \begin{cases} \left(\dfrac{e^{yx}-1}{e^{yx}+1}\right) + |1+\sin x| & , \quad x \neq 0 \\ 2 & , \quad x = 0 \end{cases}$$

Then $f(0+0) + f(0-0) + f(0)$ is :

यदि एक फलन $f : \mathbb{R} \to \mathbb{R}$:

$$f(x) = \begin{cases} \left(\dfrac{e^{yx}-1}{e^{yx}+1}\right) + |1+\sin x| & , \quad x \neq 0 \\ 2 & , \quad x = 0 \end{cases}$$

द्वारा परिभाषित है, तो $f(0+0) + f(0-0) + f(0)$ है :

Options :

1. ✖ 3

2. ✖ 0

3. ✖ 1

4. ✔ 4

Question Number : 93 Question Id : 5934528650 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If a function $f:\mathbb{R}\to\mathbb{R}$, defined by $f(x)=\begin{cases} x^p\sin\left(\frac{1}{x^q}\right), x\neq 0, & q>0 \\ 0, & x=0 \end{cases}$, is differentiable at $x=0$, then :

यदि एक फलन $f:\mathbb{R}\to\mathbb{R}$, जो $f(x)=\begin{cases} x^p\sin\left(\frac{1}{x^q}\right), x\neq 0, & q>0 \\ 0, & x=0 \end{cases}$, द्वारा परिभाषित है, बिन्दु $x=0$ पर अवकलित है, तब :

Options :

1. ✖ $p=1$

2. ✔ $p>1$

3. ✖ $0<p<1$

4. ✖ $-\infty<p\leq 0$

Question Number : 94 Question Id : 5934528651 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If a function $f : \mathbb{R} \to \mathbb{R}$ defined by $f(x) = \begin{cases} x^r \cos\left(\frac{1}{x^s}\right), & x \neq 0, \quad s > 0 \\ 0, & x = 0 \end{cases}$

is such that $f'(x)$ is continuous at $x = 0$, then :

यदि एक फलन $f : \mathbb{R} \to \mathbb{R}$

$$f(x) = \begin{cases} x^r \cos\left(\frac{1}{x^s}\right), & x \neq 0, \quad s > 0 \\ 0, & x = 0 \end{cases}$$

ऐसा परिभाषित है कि $x = 0$ पर $f'(x)$ सतत है, तब :

Options :

1. ✖ $-5 < r - s < -4$

2. ✖ $0 < r < s + 1$

3. ✖ $r = s + 1$

4. ✔ $r > s + 1$

Question Number : 95 Question Id : 5934528652 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $f(x) = \sin^{-1}\left(\frac{2x}{1+x^2}\right) + \cos^{-1}\left(\frac{1-x^2}{1+x^2}\right), -1 < x < 0$, then $\frac{d}{dx} f(x)$ is :

यदि $f(x) = \sin^{-1}\left(\frac{2x}{1+x^2}\right) + \cos^{-1}\left(\frac{1-x^2}{1+x^2}\right), -1 < x < 0$, तब $\frac{d}{dx} f(x)$ है :

Options :

1. ✖ $\frac{4}{1+x^2}$

2. ✖ $-\frac{4}{1+x^2}$

3. ✖ $\frac{1}{1+x^2}$

4. ✔ None of the three

तीनों में से कोई नहीं

Question Number : 96 Question Id : 5934528653 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $x^{50}y^{100} = (x+y)^{150}$, then $\frac{dy}{dx}$ is :

$x \neq 0, y \neq 0$

यदि $x^{50}y^{100} = (x+y)^{150}$, तब $\frac{dy}{dx}$ है :

$x \neq 0, y \neq 0$

Options :

1. ✔ $\frac{y}{x}$

2. ✖ $\frac{x}{y}$

3. ✖ $\frac{y^2}{x^2}$

4. ✖ $\frac{x^2}{y^2}$

Question Number : 97 Question Id : 5934528654 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $f(x)=(1+x)(1+x^2)(1+x^4)(1+x^8)(1+x^{16})(1+x^{32})\ \forall x\in \mathbb{R}$, then $f'(1)$ is :

यदि $f(x)=(1+x)(1+x^2)(1+x^4)(1+x^8)(1+x^{16})(1+x^{32})\ \forall x\in \mathbb{R}$ तब $f'(1)$, है :

Options :

1. ✖ 2018

2. ✖ 2015

3. ✔ 2016

4. ✖ 2020

Question Number : 98 Question Id : 5934528655 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $f(x)=(1+x^2)(1+x^4)(1+x^8)(1+x^{16})(1+x^{32})(1+x^{64})\ \forall x\in \mathbb{R}$, then $f'(0)$ is :

यदि $f(x)=(1+x^2)(1+x^4)(1+x^8)(1+x^{16})(1+x^{32})(1+x^{64})\ \forall x\in \mathbb{R}$, तो $f'(0)$ है :

Options :

1. ✖ 64

2. ✖ 1

3. ✔ 0

4. ✖ 32

Question Number : 99 Question Id : 5934528656 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $y = (\cos x)\,(\cos x)\,(\cos x)\,.....\infty\ \forall x \in \left(0, \frac{\pi}{2}\right)$, then at $x = 0$, $\frac{dy}{dx}$ is :

यदि $y = (\cos x)\,(\cos x)\,(\cos x)\,.....\infty\ \forall x \in \left(0, \frac{\pi}{2}\right)$, तब $x = 0$ पर $\frac{dy}{dx}$ है :

Options :

1. ✖ 4

2. ✖ 2

3. ✔ 0

4. ✖ 1

Question Number : 100 Question Id : 5934528657 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If $y = (\tan x)^y\ \ \forall x \in \left(0, \frac{\pi}{2}\right)$, then at $x = \frac{\pi}{4}$, $\frac{dy}{dx}$ is :

यदि $y = (\tan x)^y\ \ \forall x \in \left(0, \frac{\pi}{2}\right)$, तब $x = \frac{\pi}{4}$ पर $\frac{dy}{dx}$ है :

Options :

1. ✖ 0

2. ✖ 1

3. ✔ 2

4. ✖ -1

Section IV BOTANY AND ZOOLOGY

Section Id :	593452140
Section Number :	4
Section type :	Online
Mandatory or Optional :	Optional
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	150
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	593452168
Question Shuffling Allowed :	Yes

Question Number : 101 Question Id : 5934528658 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which type of ovule is found in 'Opuntia' ?
नागफनी में किस प्रकार का बीजाण्ड पाया जाता है ?

Options :

1. ✖ Orthotropous
आर्थोट्राप्स

2. ✔ Circinotropous
सरसिनोट्राप्स

3. ✖ Anatrapous
एनाट्राप्स

4. ✖ Amphitropous
एम्फीट्राप्स

Question Number : 102 Question Id : 5934528659 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which of the following, *Nostoc* does ***not*** occur as endophyte ?
निम्नलिखित में से किसमें *नास्टाक* एक एण्डोफाइट के रूप में ***नहीं*** पाया जाता है ?

Options :

1. ✖ *Anthoceros*
एन्थोसेरास

2. ✖ *Zamia*
जामिया

3. ✖ *Cycas*
सायकस

4. ✔ *Pinus*
पाइनस

Question Number : 103 Question Id : 5934528660 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is a bryophyte ?
निम्नलिखित में से कौन एक ब्रायोफाइट है ?

Options :

1. ✖ Club moss
क्लब मॉस

2. ✖ Reindeer moss
रेन्डीयर मॉस

3. ✖ Irish moss
आयरिस मॉस

4. ✔ Bog moss
बॉग मॉस

Question Number : 104 Question Id : 5934528661 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The number of cotyledons in *Pinus* seeds is :
पाइनस के बीज में कितने बीजपत्र पाये जाते हैं :

Options :

1. ✖ One
एक

2. ✖ Two
दो

3. ✔ Many
अनेक

4. ✖ Zero
शून्य

Question Number : 105 Question Id : 5934528662 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Pneumatophores are helpful in :
न्यूमेटोफोर्स सहायक होते हैं :

Options :

1. ✔ Respiration
श्वसन में

2. ✖ Transpiration
वाष्पीकरण में

3. ✖ Guttation
बिन्दुस्रावण में

4. ✖ Protein Synthesis
प्रोटीन संश्लेषण में

Question Number : 106 Question Id : 5934528663 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Peroxisomes are associated with :
परऑक्सीसोम्स किससे संबंधित हैं ?

Options :

1. ✖ Plant growth
पादप वृद्धि

2. ✖ Photosynthesis
प्रकाश संश्लेषण

3. ✔ Photorespiration
प्रकाशीय श्वसन

4. ✖ Photophosphorylation
फोटोफॉस्फोरिलेसन

Question Number : 107 Question Id : 5934528664 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Example of sulphur containing amino acid is :
सल्फर धारक अमीनो अम्ल का उदाहरण है :

Options :

1. ✖ Asparagine
एस्पारजीन

2. ✖ Proline
प्रोलीन

3. ✔ Methionine
मेथियोनीन

4. ✖ Serine
सेरीन

Question Number : 108 Question Id : 5934528665 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Kranz anatomy is one of the characteristics of the leaves of :
क्रैन्ज आंतरिक संरचना किसकी पत्तियों का एक प्रमुख लक्षण है ?

Options :

1. ✔ Sugarcane
गन्ना

2. ✖ Mustard
सरसों

3. ✖ Potato
आलू

4. ✖ Wheat
गेहूँ

Question Number : 109 Question Id : 5934528666 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Methane gas producing field is :
मीथेन गैस उत्पन्न करने वाला खेत है

Options :

1. ✖ Wheat field
गेहूँ का खेत

2. ✔ Paddy field
धान का खेत

3. ✖ Cotton field
कपास का खेत

4. ✖ Groundnut field
मूँगफली का खेत

Question Number : 110 Question Id : 5934528667 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Energy transfer from one trophic level to another is :
एक ट्रॉफिक लेवल से दूसरे में कितनी ऊर्जा का स्थानान्तरण होता है ?

Options :

1. ✔ 10%

2. ✖ 5%

3. ✖ 15%

4. ✖ 20%

Question Number : 111 Question Id : 5934528668 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Fern sporangium burst at :
फर्न का बीजाणुधानी टूटता है :

Options :

1. ✔ Stomium
स्टोमियम पर

2. ✖ Annulus
एनुलस पर

3. ✖ Ostiole
आस्टिओल पर

4. ✖ Operculum
अपरकुलम पर

Question Number : 112 Question Id : 5934528669 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Cycas and *Adiantum* resemble each other in having :
सायकस एवं *एडियान्टम* एक दूसरे से किसके कारण समरूप होते है ?

Options :

1. ✖ Seeds
बीज

2. ✖ Vessels
वाहिकाएँ

3. ✖ Cambium
एधा

4. ✔ Motile sperms
चल बिजाणु

Question Number : 113 Question Id : 5934528670 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

(9) + 1 arrangement of stemens is found in :

(9) + 1 के रूप में पुष्प केसर किसमें व्यवस्थित होते हैं ?

Options :

1. ✔ Pea
मटर

2. ✖ Tomato
टमाटर

3. ✖ Onion
प्याज

4. ✖ Potato
आलू

Question Number : 114 Question Id : 5934528671 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Companion cells are closely associated with :

कैम्पेनियन कोशिकाएँ किससे घनिष्ट रूप से सम्बन्धित रहती हैं ?

Options :

1. ✖ Medullary rays
संवहन किरणें

2. ✖ Cambium
एधा

3. ✔ Sieve elements
सीव इलेमेन्ट्स

4. ✖ Vessel element
वेसेल इलेमेन्ट्स

Question Number : 115 Question Id : 5934528672 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Initiation codon in genetic code is :

जेनेटिक कोड में इनिसिएसन कोडान कहलाता है :

Options :

1. ✔ AUG

2. ✖ UAA

3. ✖ UAG

4. ✖ UGA

Question Number : 116 Question Id : 5934528673 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Feathery stigma is represented by :

पंख सदृश वर्तिकाग्र किसके द्योतक है ?

Options :

1. ✖ Pea
मटर

2. ✔ Wheat
गेहूँ

3. ✖ Poppy
पॉपी (पोस्ता)

4. ✖ Chilli
मिर्च

Question Number : 117 Question Id : 5934528674 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Photorespiration involves :
प्रकाशीय श्वसन में निहित होता है :

Options :

1. ✖ Kreb's cycle
क्रेब्स चक्र

2. ✖ CAM cycle
CAM चक्र

3. ✔ Glycolate cycle
ग्लाइकोलेट चक्र

4. ✖ Calvin cycle
केल्विन चक्र

Question Number : 118 Question Id : 5934528675 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In moss the middle sterile part of capsule is called :
मॉस में कैप्सूल का मध्य बन्ध्य भाग कहलाता है :

Options :

1. ✖ Foot
फुट

2. ✔ Calumella
कालूमेला

3. ✖ Seta
सीटा

4. ✖ Apophysis
एपोफाइसिस

Question Number : 119 Question Id : 5934528676 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

On germination, spore of *Funaria* gives rise to :
अंकुरण के पश्चात *फ्यूनेरिया* का स्पोर बनाता है :

Options :

1. ✖ Vegetative body
वनस्पतिक शरीर

2. ✔ Protonema
प्रोटोनीमा

3. ✖ Prothallus
प्रोथैलस

4. ✖ Embryo
भ्रूण

Question Number : 120 Question Id : 5934528677 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which type of endosperm formation is found in coconut ?
नारियल में किस प्रकार का भ्रूणपोष बनता है ?

Options :

1. ✖ Cellular
कोशकीय

2. ✖ Helobial
हेलोबियल

3. ✔ Nuclear
न्यूक्लीयर

4. ✖ Ruminate
रूमिनेट

Question Number : 121 Question Id : 5934528678 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is a Saprophytic angiosperm ?
निम्नलिखित में से कौन एक मृतोपजीवी आवृतबीजी है ?

Options :

1. ✖ *Agaricus*
एगैरिकस

2. ✖ *Nepenthes*
नेपेन्थिस

3. ✔ *Monotropa*
मोनोट्रोपा

4. ✖ *Psilotum*
सायलोटम

Question Number : 122 Question Id : 5934528679 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Fruits of sunflower are example of :
सूर्यमुखी के फल उदाहरण हैं :

Options :

1. ✖ Berry
बेरी के

2. ✔ Cypsella
सिप्सेला के

3. ✖ Capsule
कैप्सूल के

4. ✖ Nut
नट के

Question Number : 123 Question Id : 5934528680 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A cross between F_1 with the recessive parents is known as :
F_1 का रेसेसिव पैरेन्ट्स के बीच क्रॉस कहलाता है :

Options :

1. ✔ Test cross
टेस्ट क्रॉस

2. ✖ Back cross
बैक क्रॉस

3. ✖ Hybrid cross
हाइब्रिड क्रॉस

4. ✖ Transcription
ट्रान्सक्रिप्सन

Question Number : 124 Question Id : 5934528681 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ligase enzyme is used for :
लायगेज एन्जायम प्रयुक्त होता है :

Options :

1. ✔ Joining segments of DNA
डी एन ए टुकड़ों के जोड़ने में

2. ✖ Spliting DNA
डी एन ए के विखण्डन में

3. ✖ Denaturation of DNA
डी एन ए के विकृतिकरण में

4. ✖ Lignin synthesis
लिग्निन संश्लेषण में

Question Number : 125 Question Id : 5934528682 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In bacteriophage the genetic material is :
बैक्टेरियोफेज में जेनेटिक पदार्थ होता है :

Options :

1. ✖ t-RNA
टी-आर एन ए

2. ✔ DNA
डी एन ए

3. ✖ m-RNA
एम-आर एन ए

4. ✖ r-RNA
आर-आर एन ए

Question Number : 126 Question Id : 5934528683 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A nucleosome is made up of :
न्यूक्लियोजोम बना होता है :

Options :

1. ✔ Histones (H2A, H2B, H3, H4) and 146 bp of DNA
H2A, H2B, H3, H4 हिस्टोन्स तथा DNA के 146 बेस पेयर से

2. ✖ Histones (H1, 2 molecules each of H2A, H2B, H3, H4) and 146 bp of DNA
H एक; H2A, H2B, H3, H4 हिस्टोन्स के दो अणुओं एवं DNA के 146 बेस पेयर से

3. ✖ Histones (H1, 2 molecules each of H2A, H2B, H3, H4) and 200 bp of DNA
H एक; H2A, H2B, H3, H4 हिस्टोन्स के दो अणुओं एवं DNA के 200 बेस पेयर से

4. ✖ Histones (H2A, H2B, H3, H4) and linker DNA
H2A, H2B, H3, H4 हिस्टोन्स तथा संयोजक DNA से

Question Number : 127 Question Id : 5934528684 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Due to mutation one amino acid may get replaced by another amino acid. Such mutations are termed as :

परिवर्तन के चलते अगर एक अमीनो अम्ल की जगह दूसरा आ जाय तो इसे कहते हैं :

Options :

1. ✖ Nonsense mutation
नानसेंस परिवर्तन

2. ✔ Missense mutation
मिससेंस परिवर्तन

3. ✖ Frame shift mutation
फ्रेम शिफ्ट परिवर्तन

4. ✖ Point mutation
प्वांइट परिवर्तन

Question Number : 128 Question Id : 5934528685 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

For a given gene, a diploid individual will contain :

द्विगुणित व्यक्ति में एक जीन मिलेगा :

Options :

1. ✔ two alleles
दो एलील के रूप में

2. ✖ one allele
एक एलील के रूप में

3. ✖ multiple alleles
कई एलील के रूप में

4. ✖ two genes
दो जीन्स के रूप में

Question Number : 129 Question Id : 5934528686 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The main producers in an aquatic ecosystem are :
जलीय पारिस्थितिक तंत्र में मुख्य उत्पादक हैं :

Options :

1. ✖ Large rooted and floating plants
बड़े जड़ वाले तैरने वाले पौधे

2. ✖ Zooplankton
जूप्लैंक्टान

3. ✔ Phytoplankton
फाइटोप्लैंक्टान

4. ✖ Detrivores
अपरदाहारी

Question Number : 130 Question Id : 5934528687 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which law of Mendel is revealed by monohybrid cross ?
मेंडल के किस सिद्धान्त को मोनोहाइब्रिड क्रॉस के द्वारा समझाया जा सकता है ?

Options :

1. ✖ Law of dominance
प्रभाव के सिद्धान्त को

2. ✔ Law of segregation
पृथक्करण के सिद्धान्त को

3. ✖ Law of independent assortment
स्वतंत्र अपव्यूहन के सिद्धान्त को

4. ✖ Law of heterosis
हेटरोसिस के सिद्धान्त को

Question Number : 131 Question Id : 5934528688 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a centrifuge separation of suspended particles is done by :
मिश्रित कणों को सेन्ट्रिफ्यूज करके अलग करते हैं :

Options :

1. ✔ Centrifugal force
सेन्ट्रिफ्यूगल बल से

2. ✖ Centripetal force
सेन्ट्रिपिटल बल से

3. ✖ Gravitational force
गुरुत्वाकर्षण बल से

4. ✖ Buoyant density
उत्प्लावक बल से

Question Number : 132 Question Id : 5934528689 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Migration of cancerous cells from the place of their origin to another place of the body is termed as :
कैंसर की कोशिकाओं के शरीर में बनने वाले स्थान से दूसरे स्थान पर जाने को कहते हैं :

Options :

1. ✔ Metastasis
मेटास्टैसिस

2. ✖ Diapedasis
डायापेडेसिस

3. ✖ Necrosis
नेक्रोसिस

4. ✖ Apoptosis
एपोपटोसिस

Question Number : 133 Question Id : 5934528690 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following enzymes is used extensively for gene cloning ?
जीन को क्लोन करने के लिए अतिउपयोगी एंजाइम है :

Options :

1. ✖ DNA methylase
डी एन ए मिथाइलेज

2. ✖ DNA topoisomerase
डी एन ए टोपोआइसोमरेज

3. ✖ Exonucleases
एक्सोन्यूक्लियेज

4. ✔ Restriction endonucleases
रेस्ट्रिक्शन एन्डोन्यूक्लियेजेज

Question Number : 134 Question Id : 5934528691 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In Urochordata :
यूरोकार्डेटा में :

Options :

1. ✖ Notochord is not present
नोटोकार्ड उपस्थित नहीं होता है

2. ✖ Notochord is present throughout the life
नोटोकार्ड जीवन की हर अवस्था में पायी जाती है

3. ✔ Notchord is present only in larval tail region
नोटोकार्ड केवल लारवा की पूँछ में पायी जाती है

4. ✖ Notchord is replaced by vertebral column
नोटोकार्ड कशेरुक दंड के रूप में बदल जाती है

Question Number : 135 Question Id : 5934528692 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is the feature of Mammalia ?
निम्न में से स्तनधारी के कौन-सी विशेषता है ?

Options :

1. ✖ Presence of paired pharyngeal gill slits
फेरेन्जीयल गिल स्लिट्स की उपस्थिति

2. ✖ Cranium and vertebral column is cartilaginous
कर्टिलेजिनस में क्रेनियम तथा वर्टिब्रल कालम

3. ✖ Presence of mid digital hair
मिड डिजिटल हेयर की उपस्थिति

4. ✔ Presence of mammary glands
मेमरी ग्लैन्ड्स की उपस्थिति

Question Number : 136 Question Id : 5934528693 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which animal four chambered heart is present ?
किस जानवर में चार कोष्ठीय हृदय पाया जाता है ?

Options :

1. ✔ Crocodile
घड़ियाल में

2. ✖ Toad
टोड में

3. ✖ Zebra fish
जेब्रा मछली में

4. ✖ Sea horse
समुद्री घोड़ा में

Question Number : 137 Question Id : 5934528694 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Lung receives blood from :
फेफड़े को रक्त प्राप्त होता है :

Options :

1. ✖ Left atrium
बायें अलिंद से

2. ✖ Left ventricle
बायें निलय से

3. ✖ Right atrium
दायें अलिंद से

4. ✔ Right ventricle
दायें निलय से

Question Number : 138 Question Id : 5934528695 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is associated with blood coagulation ?
इनमें से कौन-सा तत्व रक्त को थक्का बनने से सम्बन्धित है ?

Options :

1. ✔ Fibrinogen
फ्राइब्रोजेन

2. ✖ Haemoglobin
हीमोग्लोबिन

3. ✖ Albumin
एलब्यूमिन

4. ✖ Rennin
रेनिन

Question Number : 139 Question Id : 5934528696 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ostrich belongs to the class :
आस्ट्रिच की श्रेणी है :

Options :

1. ✖ Mammalia
मैमेलिया

2. ✔ Aves
एवीज

3. ✖ Reptilia
रेप्टिलिया

4. ✖ Archaeopteryxia
आर्कियोप्टेरिक्स

Question Number : 140 Question Id : 5934528697 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The concept of binomial nomenclature was given by :
द्विनाम पद्धति के सिद्धान्त के प्रणेता हैं :

Options :

1. ✖ Lamarck
लेमार्क

2. ✖ Darwin
डार्विन

3. ✔ Linneaus
लिनियस

4. ✖ Watson
वाटसन

Question Number : 141 Question Id : 5934528698 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The total output of photosynthesis including the organic matter used up in respiration during the period of measurement, is called as :
मापन की अवधि के दौरान श्वसन में उपयोग किये गये कार्बनिक पदार्थों सहित प्रकाश संश्लेषण के कुल उत्पादन को कहा जाता है :

Options :

1. ✖ Net primary productivity
शुद्ध प्राथमिक उत्पादकता

2. ✔ Gross primary productivity
सकल प्राथमिक उत्पादकता

3. ✖ Net community productivity
कुल सामुदायिक उत्पादकता

4. ✖ Secondary productivity
माध्यमिक उत्पादकता

Question Number : 142 Question Id : 5934528699 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following ecological pyramids can never be inverted ?
इसमें से कौन-सा पारिस्थितिक पिरामिड कभी भी उल्टा नहीं होता है ?

Options :

1. ✖ Pyramid of size
आकार का पिरामिड

2. ✔ Pyramid of energy
ऊर्जा का पिरामिड

3. ✖ Pyramid of biomass
बायोमास का पिरामिड

4. ✖ Pyramid of number
संख्या का पिरामिड

Question Number : 143 Question Id : 5934528700 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In most birds after hatching, the young ones normally begin to follow their mother. This behaviour is known as :
अधिकांस पक्षियों के चूजे जन्म से ही अपनी माँ की आज्ञा पालन करते हैं, इस व्यवहार को कहते हैं :

Options :

1. ✔ Imprinting
इम्प्रिन्टिंग

2. ✖ Parental care
पैरेन्टल केयर

3. ✖ Trial and error learning
परीक्षण एवं त्रुटि से सीखना

4. ✖ Reflex behaviour
रीफ्लेक्स व्यवहार

Question Number : 144 Question Id : 5934528701 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The lowest temperature at which organism can live is known as :
सबसे कम तापमान जिस पर जीव रह सकता है, कहते हैं :

Options :

1. ✖ Minimum temperature
न्यूनतम तापमान

2. ✖ Minimum critical temperature
न्यूनतम विकट तापमान

3. ✔ Minimum effective temperature
न्यूनतम प्रभावी तापमान

4. ✖ Incipient lethal temperature
उद्दीप्त घातक तापमान

Question Number : 145 Question Id : 5934528702 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Crustaceans are distinguished from insects and myriapodes by the presence of :
क्रसटेशिया के जन्तु कीटों तथा मिरियापाड्स से भिन्न होते हैं :

Options :

1. ✖ Jointed appendages
पादों के जुड़े हुए के आधार पर

2. ✖ Number of legs
पादों की संख्या के आधार पर

3. ✖ 1st pair of antenna
एन्टीना के प्रथम जोड़े के आधार पर

4. ✔ 2nd pair of antennules
एन्टीन्यूल्स के दूसरे जोड़े के आधार पर

Question Number : 146 Question Id : 5934528703 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A population is a group of :
जनसंख्या समूह है :

Options :

1. ✖ Species in a community
जाति का समुदाय

2. ✔ Individuals of a species in a given area
एक स्थान पर एक जाति के लोगों का समूह

3. ✖ Communities in an ecosystem
एक पारिस्थिकी तंत्र में लोगों का समुदाय

4. ✖ Individual in a family
परिवार के लोग

Question Number : 147 Question Id : 5934528704 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The first vertebrates to appear on earth were :
पृथ्वी पर आने वाली प्रथम कशेरुकीय जन्तु थे :

Options :

1. ✔ Ostracoderms
आस्ट्रैकोडर्म्स

2. ✖ Cyclostomes
साइक्लोस्टोम्स

3. ✖ Placoderms
प्लैकोडर्म्स

4. ✖ Condrichthyes
कान्ड्रिक्थिस

Question Number : 148 Question Id : 5934528705 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Fossil remains of Archaeopteryx were recovered from the rocks of the :
आर्कियोप्टेरिक्स के जीवाश्म पाये गये थे :

Options :

1. ✔ Jurassic period
जूरैसिक अवधि में

2. ✖ Triassic period
ट्राईएसिक अवधि में

3. ✖ Palaeozoic era
पैलिओजोइक एरा में

4. ✖ Pliocene epoch
प्लिओसीन इपाक में

Question Number : 149 Question Id : 5934528706 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Evolution of sex has been necessary due to :
जनन प्रक्रिया का क्रमागत विकास में आवश्यकता है :

Options :

1. ✖ Continuation of species
जाति को बनाये रखने में

2. ✔ Generation of variety of characters
कई प्रकार के लक्षणों को पैदा करने में

3. ✖ Constancy of traits generation after generation
पीढ़ी दर पीढ़ी लक्षणों को बनाये रखने के लिए

4. ✖ Keeping the population in limit
जनसंख्या को सीमित करने के लिए

Question Number : 150 Question Id : 5934528707 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is an example of transformation of chemical energy to light energy ?
निम्न में से कौन रासायनिक ऊर्जा का प्रकाशीय ऊर्जा में परिवर्तन का उदाहरण है ?

Options :

1. ✔ Bioluminescence
जैवीय प्रकाश

2. ✖ Autoradiography
आटोरेडियोग्राफी

3. ✖ Muscle contraction
माँसपेशी संकुचन

4. ✖ Ion transport
आयन परिवहन

Section V AGRICULTURE

Section Id :	593452141
Section Number :	5
Section type :	Online
Mandatory or Optional :	Optional
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	150
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	593452169
Question Shuffling Allowed :	Yes

Question Number : 151 Question Id : 5934528708 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The percent of protein available in wheat grains is :
गेहूँ के दानों में प्रोटीन की प्रतिशत मात्रा कितनी होती है ?

Options :

1. ✖ 28-30

2. ✖ 22-25

3. ✖ 15-20

4. ✔ 9-13

Question Number : 152 Question Id : 5934528709 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following crop helps in fixing atmospheric nitrogen in soil ?
कौन-सी फसल मृदा में वायुमंडलीय नाइट्रोजन को बढ़ाती है ?

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options :

1. Rajmash
राजमा

2. Sugarcane
गन्ना

3. Rice
धान

4. Maize
मक्का

Question Number : 153 Question Id : 5934528710 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is the range of correlation coefficient ?
सहसंबंध गुणांक का रेन्ज क्या होता है ?

Options :

1. ✔ -1 to $+1$
-1 से $+1$

2. ✖ 0 to 1
0 से 1

3. ✖ $-\infty$ to $+\infty$
$-\infty$ से $+\infty$

4. ✖ All of the three
तीनों में सभी

Question Number : 154 Question Id : 5934528711 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Pusa Nanha is the variety of :
पूसा नन्हा किस फल की प्रजाति है ?

Options :

1. ✖ Coconut
नारियल

2. ✖ Guava
अमरूद

3. ✔ Papaya
पपीता

4. ✖ Mango
आम

Question Number : 155 Question Id : 5934528712 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following crop is used for green manuring ?
कौन-सी फसल हरी खाद के लिए प्रयोग होती है ?

Options :

1. ✖ Maize
मक्का

2. ✖ Rice
धान

3. ✖ Sugarcane
गन्ना

4. ✔ Sesbania
ढैंचा

Question Number : 156 Question Id : 5934528713 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the micronutrient is most useful for enhancing oil content in mustard ?
कौन-सा सूक्ष्मतत्व सरसों में तेल की मात्रा बढ़ाने में उपयोगी है ?

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options :

1. Boron
बोरॉन

2. Sulphur
सल्फर

3. Zinc
जिंक

4. Iron
लोहा

Question Number : 157 Question Id : 5934528714 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

For reclamation of Alkaline soil the farmer can apply ?
क्षारीय मृदा सुधार के लिए किसान प्रयोग करते हैं ?

Options :

1. ✖ Murate of Potash
म्यूरेट ऑफ पोटाश

2. ✖ Urea
यूरिया

3. ✖ Lime
चूना

4. ✔ Zypsum
जिप्सम

Question Number : 158 Question Id : 5934528715 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

'Gene for gene' hypothesis was proposed by :
'जीन फॉर जीन' की परिकल्पना किसने दिया था ?

Options :

1. ✖ Johansen
जोहन्सन

2. ✔ Flor
फ्लोर

3. ✖ Thomas Fairchild
थामस फेयरचाइल्ड

4. ✖ Darwin
डार्विन

Question Number : 159 Question Id : 5934528716 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

'DUS-Test' has been started for testing :
'डस-टेस्ट' किस परीक्षण के लिए शुरु किया गया ?

Options :

1. ✖ Cattle breed
पशु नस्ल

2. ✖ Milk purity
दुग्ध शुद्धता

3. ✔ Crop varieties
फसल किस्म

4. ✖ Irrigation
सिंचाई

Question Number : 160 Question Id : 5934528717 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Open pollination takes place in :
किस फसल में पर-परागण होता है ?

Options :

1. ✔ Maize
मक्का

2. ✖ Wheat
गेहूँ

3. ✖ Rice
धान

4. ✖ Pea
मटर

Question Number : 161 Question Id : 5934528718 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Regional Rural Bank in India was established in :
भारत में क्षेत्रीय ग्रामीण बैंक कब स्थापित किया गया ?

Options :

1. ✖ 1965

2. ✖ 1970

3. ✔ 1975

4. ✖ 1980

Question Number : 162 Question Id : 5934528719 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is suitable for light soils ?
निम्नलिखित में कौन-सी फसल हल्की मिट्टी हेतु उपयुक्त है ?

Options :

1. ✔ Groundnut
मूँगफली

2. ✖ Wheat
गेहूँ

3. ✖ Maize
मक्का

4. ✖ Mustard
सरसों

Question Number : 163 Question Id : 5934528720 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The form of phosphorous in DAP is :
डी ए पी में फॉस्फोरस किस रूप में पाया जाता है ?

Options :

1. ✖ Phosphide
फॉस्फाइड

2. ✖ Phosphoric acid
फॉस्फोरिक एसिड

3. ✔ Phosphate
फॉस्फेट

4. ✖ All of the three
तीनों में सभी

Question Number : 164 Question Id : 5934528721 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Well defined nucleus is found in :
उचित परिभाषित केन्द्रक पाया जाता है :

Options :

1. ✔ Eukaryotes
युकैरियोट्स में

2. ✖ Prokaryotes
प्रोकैरियोट्स में

3. ✖ Cyanobacteria
सायनोबैक्टेरिया में

4. ✖ Bacteria
बैक्टेरिया में

Question Number : 165 Question Id : 5934528722 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Khaira disease in rice is caused by :
धान में खैरा रोग किस कारण होता है ?

Options :

1. ✖ Bacteria
जीवाणु द्वारा

2. ✖ Fungi
फफूँदी द्वारा

3. ✖ Boron deficiency
बोरान की कमी द्वारा

4. ✔ Zinc deficiency
जिंक की कमी द्वारा

Question Number : 166 Question Id : 5934528723 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The food produced by leaves are transported through :
पत्तों द्वारा बना भोजन किसके द्वारा भेजा जाता है ?

Options :

1. ✖ Phellogen
फेलोजेन

2. ✖ Xylem
जाइलम

3. ✔ Phloem
फ्लोयम

4. ✖ Parenchyma
पैरेनकाइमा

Question Number : 167 Question Id : 5934528724 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is responsible for ripening of the fruits ?
निम्नलिखित में कौन फलों को पकाने में सहायक है ?

Options :

1. ✖ Ethanol
इथेनॉल

2. ✖ Acetic Acid
एसिटिक एसिड

3. ✖ Gibberellic Acid
जिबरेलिक एसिड

4. ✔ Ethelene
एथिलीन

Question Number : 168 Question Id : 5934528725 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Golden rice is known for :
गोल्डेन चावल किसलिए जाना जाता है ?

Options :

1. ✔ High Vitamin A
अधिक विटामिन ए के लिए

2. ✖ High protein
अधिक प्रोटीन के लिए

3. ✖ High Zinc
अधिक जिंक के लिए

4. ✖ High Iron
अधिक आयरन के लिए

Question Number : 169 Question Id : 5934528726 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Mutation is generally :
उत्परिवर्तन प्रायः कैसा होता है ?

Options :

1. ✖ Dominant and harmful
प्रभावी एवं नुकसानदेह

2. ✔ Recessive and harmful
अप्रभावी एवं नुकसानदेह

3. ✖ Dominant and useful
प्रभावी तथा उपयोगी

4. ✖ Recessive and useful
अप्रभावी तथा उपयोगी

Question Number : 170 Question Id : 5934528727 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Browning symptom in cauliflower is due to deficiency of :
फूलगोभी में 'भूरापन लक्षण' किसकी कमी से होता है ?

Options :

1. ✖ Zinc
जिंक

2. ✖ Iron
आयरन

3. ✔ Boron
बोरान

4. ✖ Molybdenum
मॉलिब्डेनम

Question Number : 171 Question Id : 5934528728 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Grasshopper belongs to order :
टिड्डा किस आर्डर का कीट है ?

Options :

1. ✖ Lepidoptera
लेपिडोप्टेरा

2. ✔ Orthoptera
आर्थोप्टेरा

3. ✖ Isoptera
आइसोप्टेरा

4. ✖ Blattodea
ब्लेटोडिया

Question Number : 172 Question Id : 5934528729 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

How many ATP is net gained during citric acid cycle of aerobic respiration of one glucose ?
एक ग्लूकोज के ऑक्सीश्वसन के सिट्रिक एसिड चक्र के दौरान कितने ATP नेट प्राप्त होते हैं ?

Options :

1. ✖ 30

2. ✔ 24

3. ✖ 12

4. ✖ More than one
एक से अधिक

Question Number : 173 Question Id : 5934528730 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

When a cell is placed in hypotonic solution then its size :
जब एक कोशिका हाइपोटॉनिक विलयन में जाती है, तो इसका आकार :

Options :

1. ✖ Decreases
घटता है

2. ✔ increases
बढ़ता है

3. ✖ Remains unchanges
कोई परिवर्तन नहीं होता है

4. ✖ First increases and then decreases
पहले बढ़ता है, फिर घटता है

Question Number : 174 Question Id : 5934528731 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The yellowish colour in cow milk is due to :
गाय के दूध में पीलापन किसके कारण होता है ?

Options :

1. ✔ Carotene
कैरोटीन

2. ✖ Fat
वसा

3. ✖ Lactose
लेक्टोज

4. ✖ Casein
केसीन

Question Number : 175 Question Id : 5934528732 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

'SRI – cultivation' is concerned with :
'एस आर आई कल्टीवेशन' किससे संबंधित है ?

Options :

1. ✔ Rice
धान

2. ✖ Wheat
गेहूँ

3. ✖ Maize
मक्का

4. ✖ Barley
जौ

Question Number : 176 Question Id : 5934528733 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The seed rate (kg/ha) of hybrid rice is :
संकर धान का बीज दर (किग्रा०/हे०) क्या है ?

Options :

1. ✔ 12-15

2. ✖ 25-30

3. ✖ 35-40

4. ✖ 45-50

Question Number : 177 Question Id : 5934528734 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is known as assimilatory power of dark reaction of photosynthesis :
निम्न में से प्रकाश संश्लेषण की अप्रकाशिय अभिक्रिया के स्वांगीकरण क्षमता क्या कहते है ?

Options :

1. ✖ RUDP & RUMP
आर०यू०डी०पी० और आर०यू०एम०पी०

2. ✖ Water and oxygen
पानी और ऑक्सीजन

3. ✔ ATP & NADPH
ए०टी०पी० और एन०ए०डी०पी०एच०

4. ✖ ADP and Pi
एडीपी और पीआई

Question Number : 178 Question Id : 5934528735 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The availability of zinc to plants become a complex problem at pH :
पौधों में जिन्क की उपलब्धता किस पी एच पर अधिक समस्या हो जाती है ?

Options :

1. ✖ < 5.5

2. ✖ 5.5 – 6.0

3. ✖ 6.0 – 7.0

4. ✔ >7.0

Question Number : 179 Question Id : 5934528736 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Best time of sowing mustard is :
सरसों-राई के बुवाई का सर्वोत्तम समय क्या है ?

Options :

1. ✔ October
अक्टूबर

2. ✖ November
नवम्बर

3. ✖ December
दिसम्बर

4. ✖ January
जनवरी

Question Number : 180 Question Id : 5934528737 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The diameter of clay soil particle is :
चिकनी मिट्टी के कणों का व्यास क्या है ?

Options :

1. ✔ Less than 0.002 mm
0.002 मिमी से कम

2. ✖ 0.002 mm to 0.05 mm
0.002 मिमी से 0.05 मिमी

3. ✖ 0.05 mm to 2.0 mm
0.05 मिमी से 2.0 मिमी

4. ✖ Larger than 2.0 mm
2.0 मिमी से बड़ा

Question Number : 181 Question Id : 5934528738 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Yellow leaf curl virus in tomato is transmitted by :
टमाटर में 'येलो लीफ कर्ल वायरस' किसके द्वारा फैलायी जाती है ?

Options :

1. ✖ Aphid
माहो

2. ✔ Whitefly
सफेद मक्खी

3. ✖ Honey bee
मधुमक्खी

4. ✖ Termite
दीमक

Question Number : 182 Question Id : 5934528739 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Beetle is the insect of order :
बीटल किस आर्डर का कीट है ?

Options :

1. ✔ Coleoptera
कोलिओप्टेरा

2. ✖ Lepidoptera
लेपिडोप्टेरा

3. ✖ Hemiptera
हेमिप्टेरा

4. ✖ Thysanoptera
थाइसेनोप्टेरा

Question Number : 183 Question Id : 5934528740 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Element responsible for maintaining cell turgor is :
टरगर कोशिका मेन्टेनिंग के लिए उत्तरदायित्व तत्त्व है :

Options :

1. ✖ Na

2. ✖ Hg

3. ✖ Ca

4. ✔ K

Question Number : 184 Question Id : 5934528741 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The headquarter of Central Agmark Laboratory is situated at :

केन्द्रीय एगमार्क प्रयोगशाला का मुख्यालय कहाँ है ?

Options :

1. ✖ New Delhi
नई दिल्ली

2. ✖ Lucknow
लखनऊ

3. ✖ Ahmdabad
अहमदाबाद

4. ✔ Nagpur
नागपुर

Question Number : 185 Question Id : 5934528742 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Olericulture is related with :
ओलेरीकल्चर किससे संबंधित है ?

Options :

1. ✖ Flowers
फूल

2. ✖ Fruits
फल

3. ✔ Vegetables
सब्जी

4. ✖ Pulses
दाल

Question Number : 186 Question Id : 5934528743 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which part of the cell works as collection and dispatch station of protein products ?
कोशिका का कौन-सा भाग प्रोटीन उत्पाद संकलन एवं संवहन का कार्य करती है ?

Options :

1. ✔ Golgibody
गॉल्जीकाय

2. ✖ Vacuole
रिक्तिका

3. ✖ Mitochondria
माइटोकॉन्ड्रिया

4. ✖ Endoplasmic reticulum
एन्डोप्लाज्मिक रेटीकुलम

Question Number : 187 Question Id : 5934528744 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The Anthrax disease in cattle is caused by :
मवेशी में एन्थ्रेक्स रोग किसके द्वारा होता है ?

Options :

1. ✖ Virus
विषाणु

2. ✔ Bacteria
जीवाणु

3. ✖ Fungus
फफूँदी

4. ✖ Mutation
उत्परिवर्तन

Question Number : 188 Question Id : 5934528745 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is the disc angle of a plough ?
निम्नलिखित में कौन हल का डिस्क एन्गल है ?

Options :

1. ✖ $15° – 25°$

2. ✖ $30° – 40°$

3. ✔ $42° – 45°$

4. ✖ $48° – 52°$

Question Number : 189 Question Id : 5934528746 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Continuous use of urea makes the soil :
यूरिया के लगातार प्रयोग से मिट्टी पर क्या प्रभाव पड़ता है ?

Options :

1. ✔ Acidic
अम्लीय

2. ✖ Alkaline
क्षारीय

3. ✖ Neutral
न्यूट्रल

4. ✖ None of the three
तीनों में से कोई नहीं

Question Number : 190 Question Id : 5934528747 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Yellow colour in Turmeric is caused due to the presence of :
हल्दी में पीले रंग की उपस्थिति का कारण क्या है ?

Options :

1. ✖ Boron
बोरॉन

2. ✔ Curcumin
करक्यूमिन

3. ✖ Iron
आयरन

4. ✖ Comoplastid
कोमोप्लास्टिड

Question Number : 191 Question Id : 5934528748 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is Inter-cropping ?
इंटर-कापिंग क्या है ?

Options :

1. ✖ It is the time period between two cropping seasons
दो फसली मौसमों के बीच की समयावधि

2. ✖ It is growing of two or more crops in random mixture
यादृच्छिक मिश्रण में दो या दो से अधिक फसलों की उपज

3. ✔ It is growing of two or more crops in definite row patterns
दो या दो से अधिक फसलों की निश्चित पंक्ति में उपज

4. ✖ It is growing of different crops on a piece of land in a preplanned succession
एक पूर्ववर्ती उत्तराधिकार में जमीन के एक टुकड़े पर अलग-अलग फसलों के रूप में उपज

Question Number : 192 Question Id : 5934528749 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The hybrid mango developed from the cross of *Neelum* and *Alphonso* is :
नीलमा और *अल्फान्सो* के क्रॉस से विकसित हाइब्रिड आम कौन-सा है ?

Options :

1. ✖ Amrapali
आम्रपाली

2. ✖ Dasheri
दशहरी

3. ✔ Ratna
रत्न

4. ✖ Badami
बादामी

Question Number : 193 Question Id : 5934528750 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

White bud in maize is caused due to the deficiency of :
मक्का में सफेद कली किसकी कमी के कारण उत्पन्न होती है ?

Options :

1. ✔ Zinc
जिंक

2. ✖ Ammonium
अमोनियम

3. ✖ Iron
आयरन

4. ✖ Sulphur
सल्फर

Question Number : 194 Question Id : 5934528751 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The most popular fertilizer for foliar application is :
पर्ण आवेदन के लिए सबसे लोकप्रिय उर्वरक कौन-सा है ?

Options :

1. ✖ Potassium
पोटेशियम

2. ✖ Phosphate
फॉस्फेट

3. ✔ Urea
यूरिया

4. ✖ Ammonium
अमोनियम

Question Number : 195 Question Id : 5934528752 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following pairs is *not* correctly matched ?
निम्न में से कौन-सा जोड़ा सही ढंग से मेल ***नहीं*** खाता है ?

Options :

1. ✖ Cuscuta – stem parasite
कस्क्यूटा - तना परजीवी

2. ✖ Chandan – root parasite
चंदन - जड़ परजीवी

3. ✖ Orchids – epiphyte
ऑर्किड – एपिफाइट

4. ✔ Nepenthes - hydrophyte
नेपेन्थिस - हाइड्रोफाइट

Question Number : 196 Question Id : 5934528753 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The practice of raising grazing livestock such as cattle or sheep for meat or wool is known as :
चराई पशुओं का पालन जैसे मवेशी या भेड़, माँस या ऊन के लिए की प्रथा को क्या कहते है ?

Options :

1. ✖ Silviculture
सिल्विकल्चर

2. ✖ Permaculture
पर्माकल्चर

3. ✔ Ranching
रेंचिंग

4. ✖ Breeding
प्रजनन

Question Number : 197 Question Id : 5934528754 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

White rust is an important fungal disease of :
व्हाइट रस्ट एक महत्त्वपूर्ण फफूँद रोग है :

Options :

1. ✖ Wheat
गेहूँ का

2. ✔ Mustard
सरसों का

3. ✖ Rice
चावल का

4. ✖ Bajra
बाजरा का

Question Number : 198 Question Id : 5934528755 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Botanically pineapple is a :
वानस्पतिक रूप से अनन्नास क्या है :

Options :

1. ✖ Pome
पोम

2. ✖ Baluster
बालस्टर

3. ✖ Berry
बेरी

4. ✔ Sorosis
सोरोसिस

Question Number : 199 Question Id : 5934528756 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The average gestation period in buffalo is of how many days ?
भैंस की औसत गर्भधारण की अवधि कितने दिनों की होती है ?

Options :

1. ✔ 310

2. ✖ 210

3. ✖ 400

4. ✖ 345

Question Number : 200 Question Id : 5934528757 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Photorespiration is inhibited by :
फोटोरेस्पिरेशन किसके द्वारा रुकता है ?

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options :

1. 2, 4- Dinitrophenol
2, 4 - डाइनाइट्रोफिनॉल

2. α-hydroxy sulphonates
α-हाइड्रॉक्सी सल्फोनेट्स

3. CMU and DCMU
CMU और DCMU

4. β-hydroxy amides
β-हाइड्रॉक्सी एमाइड्स