

# 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.

<b>Question Paper Name :</b>	751 11th April 2021 Shift 1
<b>Subject Name :</b>	751
<b>Creation Date :</b>	2021-04-11 17:05:45
<b>Duration :</b>	120
<b>Total Marks :</b>	300
<b>Display Marks:</b>	Yes
<b>Share Answer Key With Delivery Engine :</b>	Yes
<b>Actual Answer Key :</b>	Yes
<b>Calculator :</b>	None
<b>Magnifying Glass Required? :</b>	No
<b>Ruler Required? :</b>	No
<b>Eraser Required? :</b>	No
<b>Scratch Pad Required? :</b>	No
<b>Rough Sketch/Notepad Required? :</b>	No
<b>Protractor Required? :</b>	No
<b>Show Watermark on Console? :</b>	Yes
<b>Highlighter :</b>	No
<b>Auto Save on Console?</b>	No
<b>Change Font Color :</b>	No
<b>Change Background Color :</b>	No
<b>Change Theme :</b>	No
<b>Help Button :</b>	No
<b>Show Reports :</b>	No
<b>Show Progress Bar :</b>	No

## RET\_Soil Science and Agricultural Chemistry

<b>Group Number :</b>	1
<b>Group Id :</b>	87408143
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	300
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View

Show Progress Bar? :

No

## Research\_Methodology

Section Id :	87408194
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	40
Number of Questions to be attempted :	40
Section Marks :	120
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	874081136
Question Shuffling Allowed :	Yes

**Question Number : 1 Question Id : 8740815618 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

..... refers to inferring about the whole population based on the observations made on a small part.

एक छोटे से हिस्से पर की गई टिप्पणियों के आधार पर पूरी आबादी के बारे में जिक्र है :

**Options :**

1. ✘ Pseudo inference  
छद्म निष्कर्ष
2. ✘ Objective inference  
उद्देश्य निष्कर्ष
3. ✔ Inductive inference  
आगमनात्मक निष्कर्ष
4. ✘ Deductive inference  
डिडक्टिव निष्कर्ष

**Question Number : 2 Question Id : 8740815619 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

Ex-Post Facto research means .....

घटनोत्तर शोध का तात्पर्य है :

**Options :**

1. ✓  The research is carried out after the incident  
घटना के पश्चात शोध किया गया है
2. ✗  The research is carried out prior to the incident  
घटना से पहले शोध किया गया है
3. ✗  The research is carried out along with the happening of an incident  
शोध किसी घटना के घटित होने के साथ किया गया है
4. ✗  The research is carried out keeping in mind the possibilities of an incident  
शोध किसी घटना की संभावनाओं को ध्यान में रखते हुए किया गया है

**Question Number : 3 Question Id : 8740815620 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 survey, the respondents are interested to discuss the recent private cellular schemes, but the surveyor asked them about BSNL landline service. What type of error will it lead to ?

एक सर्वेक्षण में, उत्तरदाताओं को हाल ही में निजी सेलुलर योजनाओं पर चर्चा करने के लिए दिलचस्पी है, लेकिन सर्वेक्षणकर्ता ने उनसे बीएसएनएल लैंडलाइन सेवा के बारे में पूछा। किस प्रकार की त्रुटि होगी ?

**Options :**

1. ✗  Non-response error  
गैर-प्रतिक्रिया त्रुटि
2. ✓  Selection error  
चयन त्रुटि

Sample error

3. ✖ नमूना त्रुटि

Panel error

4. ✖ पैनल त्रुटि

**Question Number : 4 Question Id : 8740815621 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

Total number of digits in 'Tippet' table are :

‘टिपेट’ तालिका में कुल अंक होते हैं :

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

**Options :**

1. 10,400

2. 9,400

3. 10,200

4. 9,600

**Question Number : 5 Question Id : 8740815622 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

Endogenous variable is also known as :

अंतर्जात चर को इस नाम से भी जाना जाता है :

**Options :**

- Intervening variable  
1. ✘ मध्यवर्ती चर
- Mediating variable  
2. ✘ मध्यस्थ चर
- Independent variable  
3. ✘ स्वतंत्र चर
- Dependent variable  
4. ✔ आश्रित चर

**Question Number : 6 Question Id : 8740815623 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

Rejection of hypothesis which is true leads to :  
परिकल्पना की अस्वीकृति जो सत्य है, कहलाती है :

Options :

- Sampling Error  
1. ✘ प्रतिचयन त्रुटि
- Type II Error  
2. ✘ टाइप II त्रुटि
- Type I Error  
3. ✔ टाइप I त्रुटि
- Estimation Error  
4. ✘ आकलन त्रुटि

**Question Number : 7 Question Id : 8740815624 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

Feature of a hypothesis is :  
परिकल्पना का वैशिष्ट्य है :

Options :

1. ✓ Testability  
परीक्षण करने की क्षमता
2. ✗ Insufficiency  
कमी
3. ✗ Illogical  
विसंगत
4. ✗ Complication  
जटिलता

Question Number : 8 Question Id : 8740815625 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 first step of research ?  
निम्नलिखित में से कौन-सा शोध का पहला चरण है ?

Options :

1. ✗ Designing the research  
अनुसंधान डिजाइन करना
2. ✗ Data Collection  
डेटा संग्रहण
3. ✓ Formulation of the research problem  
शोध समस्या का सूत्र
4. ✗ Analysis of data  
डेटा का विश्लेषण

Question Number : 9 Question Id : 8740815626 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

Sampling error can be reduced by :

न्यादर्श में त्रुटि को कम किया जा सकता है :

**Options :**

1. ✘ Non-probability sampling  
गैर-संभाव्यता न्यादर्श द्वारा
2. ✘ Increasing the population  
जनसंख्या में वृद्धि द्वारा
3. ✘ Decreasing the sample size  
न्यादर्श आकार में कमी द्वारा
4. ✔ Increasing the sample size  
न्यादर्श आकार में वृद्धि द्वारा

**Question Number : 10 Question Id : 8740815627 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

Empirical research is related to :

अनुभवाश्रित अनुसंधान संबंधित है :

**Options :**

1. ✘ Pure logic  
विशुद्ध तर्क से
2. ✔ Observation  
निरीक्षण से
3. ✘ Theory  
सिद्धान्त से
4. ✘ Critical Thinking  
आलोचनात्मक सोच से

**Question Number : 11 Question Id : 8740815628 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 features one considered as critical in qualitative research ?

गुणात्मक अनुसंधान में निम्न में से कौन-सा लक्षण आलोचनात्मक माना जाता है ?

**Options :**

1. ✘ Collecting data with the help of standardized research tools  
माननीकृत अनुसंधान उपकरणों की मदद से आँकड़ों का संग्रहण
2. ✘ Design sampling with probability sample technique.  
संभाव्यता सैम्पल तकनीक द्वारा सैम्पलिंग योजना बनाना
3. ✔ Collecting data with bottom of empirical evidence  
बॉटम अप प्रयोग सिद्ध प्रमाणों द्वारा आँकड़ों का संग्रहण
4. ✘ Gathering data with top down schematic evidence  
टाप डाउन योजनाबद्ध प्रभावों द्वारा आँकड़ों का संग्रहण

**Question Number : 12 Question Id : 8740815629 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 among the following statement is true in the context of the testing of hypothesis ?

परिकल्पना के सत्यापन के सन्दर्भ में निम्न में से कौन-सा कथन सत्य है ?

**Options :**

1. ✘ It is only the alternative hypothesis that can be tested  
यह केवल वैकल्पिक परिकल्पना है जिसे जाँचा जा सकता है
2. ✔ It is only the null hypothesis that can be tested  
यह केवल नल परिकल्पना है जिसे जाँचा जा सकता है



Both the alternative and null hypothesis can be tested

वैकल्पिक एवं नल दोनों ही परिकल्पनाओं को जाँचा जा सकता है

3. ✖

Both the alternative and null hypothesis can not be tested

वैकल्पिक एवं नल दोनों ही परिकल्पनाओं को नहीं जाँचा जा सकता है

4. ✖

**Question Number : 13 Question Id : 8740815630 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 there is a uniform variation in the ratio of the two variable then the regression would be :

यदि दो चरों के अनुपात में समान विभिन्नता पाई जाए, तो रीग्रेसन होगा :

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

Options :

Exponential

एक्सपोनेन्सियल

1.

Quadratic

क्वाड्रेटिक

2.

Linear

रेखिक

3.

Power

पावर

4.

**Question Number : 14 Question Id : 8740815631 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 one of the types of 'validity' encountered in research design and methodology ?

निम्नलिखित में से कौन अनुसंधान डिजाइन और कार्यप्रणाली में प्रयुक्त 'वैधता' के प्रकारों में से एक है ?

Options :

1. ✓ Statistical validity  
सांख्यिकीय वैधता
2. ✗ Integral validity  
समाकलित वैधता
3. ✗ Modular validity  
माड्यूलर वैधता
4. ✗ Projective validity  
प्रक्षेपी वैधता

Question Number : 15 Question Id : 8740815632 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 CARE list of journals the "CARE" stands for :

CARE शोध पत्रिकाओं की सूची में "CARE" का विस्तृत रूप है :

Options :

1. ✗ Consortium of Academicians for Research Ethics  
कंसोर्टियम ऑफ एकेडमिशियन्स फॉर रिसर्च एथिक्स
2. ✗ Consortium of Academicians for the Researchers Empowerment  
कंसोर्टियम ऑफ एकेडमिशियन्स फॉर द रिसर्चर्स एम्पॉवरमेंट
3. ✓ Consortium of Academic and Research Ethics  
कंसोर्टियम ऑफ एकेडमिक एण्ड रिसर्च एथिक्स
4. ✗ Consortium of Academic and Researchers Ethics  
कंसोर्टियम ऑफ एकेडमिक एण्ड रिसर्चर्स एथिक्स

Question Number : 16 Question Id : 8740815633 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

Read the statement A and B and choose the correct option :

कथन A और B पढ़ें और सही विकल्प चुनें :

**Statement (A) :** The structured approach to enquiry is usually classified as qualitative research.

कथन (A) : समीक्षा के लिए संरचित दृष्टिकोण को आमतौर पर गुणात्मक अनुसंधान के रूप में वर्गीकृत किया जाता है।

**Statement (B) :** In the structured approach, everything that forms the research process – objectives, design, sample, and the questions that a researcher plans to ask of respondents – is not predetermined.

कथन (B) : संरचित दृष्टिकोण में, वह सब कुछ जो अनुसंधान प्रक्रिया का निर्माण करता है – उद्देश्य, डिजाइन, नमूना, और वे प्रश्न जो एक शोधकर्ता ने उत्तरदाताओं में पूछने की योजना बनाई है – पूर्व निर्धारित नहीं होती है।

Options :

1. ✘ Both the statements are true  
दोनों कथन सत्य है
2. ✔ Both the statements are false  
दोनों कथन असत्य है
3. ✘ Statement A is true but B is false  
कथन A सत्य है लेकिन B गलत है
4. ✘ Statement B is true but A is false  
कथन B सत्य है लेकिन A गलत है

Question Number : 17 Question Id : 8740815634 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

"Controlled Group" is a term used in .....

“नियंत्रित समूह” ..... में प्रयुक्त एक शब्द है।



Options :

1. ✘ Survey research  
सर्वेक्षण शोध
2. ✘ Historical research  
ऐतिहासिक शोध
3. ✔ Experimental research  
प्रायोगिक शोध
4. ✘ Descriptive research  
वर्णनात्मक शोध

Question Number : 18 Question Id : 8740815635 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

Read the statement and choose the correct option given below :

नीचे दिए गए कथनों को पढ़ें और सही विकल्प चुनें :

Statement (A) : A hypothesis must not be falsifiable.

अभिकथन (A) : परिकल्पना मिथ्या साबित नहीं होनी चाहिए।

Reason (R) : If a hypothesis is falsifiable, then science cannot be used to test the hypothesis,

तर्क (R) : यदि परिकल्पना मिथ्या है, तो परिकल्पना का परीक्षण करने के लिए विज्ञान का उपयोग नहीं किया जा सकता है।

Options :

1. ✘ Both the statements are true and (R) is the correct explanation of (A)  
दोनों कथन सत्य हैं और (A) की सही व्याख्या (R) है।
2. ✘ Both the statements are true but (R) is not the correct explanation of (A)  
दोनों कथन सत्य है लेकिन (A) की सही व्याख्या (R) नहीं है
3. ✘ (A) is false but (R) is true  
(A) गलत है लेकिन (R) सत्य है

Both the statements are false

4. ✓ दोनों कथन गलत है

**Question Number : 19 Question Id : 8740815636 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

To test which of the following is not used a qualitative hypothesis ?

निम्नलिखित में से किसका परीक्षण करने के लिए गुणात्मक परिकल्पना का उपयोग नहीं किया जाता है ?

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

Options :

1. t-test  
टी-टेस्ट
2. ANOVA  
एनोवा
3. Chi Square  
काई-स्क्वायर
4. F-test  
एफ-टेस्ट

**Question Number : 20 Question Id : 8740815637 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

Fundamental research reflects the ability to :

मौलिक शोध की क्षमता को दर्शाता है :

Options :

1. ✘ Synthesize new ideals  
नए आदर्शों का संश्लेषण करना



Expound new principles

2. ✓ नए सिद्धांतों को उजागर करना

Evaluate the existing material concerning research

3. ✘ शोध से संबंधित मौजूदा सामग्री का मूल्यांकन करना

Study the existing literature regarding various topics

4. ✘ विभिन्न विषयों के संबंध में मौजूदा साहित्य का अध्ययन करना

**Question Number : 21 Question Id : 8740815638 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 sampling technique which of the following is not a part of sampling frame ?

नमूना तकनीक में निम्नलिखित में से कौन सा नमूना फ्रेम का हिस्सा नहीं है ?

Options :

a list of random numbers

1. ✓ यादृच्छिक संख्याओं की सूची

a list of sampling units of a population

2. ✘ एक जनसंख्या की नमूना इकाइयों की सूची

a list of voters

3. ✘ मतदाताओं की सूची

a list of respondents only

4. ✘ केवल उत्तरदाताओं की सूची

**Question Number : 22 Question Id : 8740815639 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 study of two variables, when the variables change their direction in opposite manner, then this phenomenon is called :

दो 'चरों' के अध्ययन में, जब चर अपनी दिशा विपरीत तरीके में बदलते हैं, तो इस घटना को कहा जाता है :

Options :

1. ✘ Positive-Negative Correlation  
सकारात्मक-नकारात्मक सहसंबंध
2. ✔ Negative Correlation  
नकारात्मक सहसंबंध
3. ✘ Fluctuating Correlation  
अस्थिर सहसंबंध
4. ✘ Positive Correlation  
सकारात्मक सहसंबंध

Question Number : 23 Question Id : 8740815640 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 stem and leaf display is an effective, quick and simple way of displaying a :  
'स्टेम और लीफ डिस्प्ले' निम्नलिखित में से किसे प्रदर्शित करने का एक प्रभावी, त्वरित और सरल तरीका है :

Options :

1. ✘ Hypothesis  
परिकल्पना
2. ✔ Frequency Distribution  
आवृत्ति वितरण
3. ✘ Research Question  
शोध प्रश्न

## Research Design

### 4. ✖ अनुसंधान डिजाइन (अभिकल्प)

**Question Number : 24 Question Id : 8740815641 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

..... is useful to study changes of values in the variable over time.

..... समय के साथ चर में मूल्यों के परिवर्तनों का अध्ययन करने के लिए उपयोगी है।

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

**Options :**

Pie diagram

पाई आरेख

1.

Bar diagram

बार आरेख

2.

Scatter diagram

स्कैटर आरेख

3.

Line diagram

रेखा आरेख

4.

**Question Number : 25 Question Id : 8740815642 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 effect of the exposure of interest on the outcome is distorted because of the effect of extraneous factors that are related to both the exposure and outcome. This phenomenon is called :

परिणाम पर ब्याज के जोखिम का प्रभाव विकृत कारकों के प्रभाव के कारण विकृत होता है, जो जोखिम और परिणाम दोनों से संबंधित हैं। इस घटना को कहा जाता है :

Options :

1. ✘ Correlation  
सहसंबंध
2. ✔ Confounding  
उलझना
3. ✘ Recall bias  
रिकाल प्रवृत्ति
4. ✘ Measurement error  
मापन त्रुटि

Question Number : 26 Question Id : 8740815643 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 we are doing an analytical study and the study outcome is of acute nature and rare condition what is the appropriate study design ?

यदि हम एक विश्लेषणात्मक अध्ययन कर रहे हैं और अध्ययन का परिणाम तीव्र प्रकृति और दुर्लभ स्थिति का है, तो उपयुक्त अध्ययन डिजाइन क्या है ?

Options :

1. ✘ Cohort study  
कोहोर्ट अध्ययन
2. ✔ Case-control study  
केस-कंट्रोल अध्ययन
3. ✘ Cross-sectional study  
क्रॉस-अनुभागीय अध्ययन



## Surveillance

### 4. ✘ निगरानी

**Question Number : 27 Question Id : 8740815644 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 validity that refers to the extent to which the new questionnaire conforms to existing ideas or hypotheses is known as :

वह वैधता जो इसे सूचित करती है कि किस सीमा तक नई प्रश्नावली प्रचलित विचारों एवं परिकल्पनाओं के अनुरूप है, कहलाता है :

Options :

1. ✘ Content validity  
अंतर्वस्तु वैधता

2. ✘ Construct validity  
निर्मित वैधता

3. ✘ Face validity  
आभासी वैधता

4. ✔ Criterion validity  
मानदण्डीय वैधता

**Question Number : 28 Question Id : 8740815645 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

According to Goode & Hatt, scaling techniques :

गुडे और हॉट के अनुसार, अनुमापन विधियाँ :

Options :

1. ✔ Convert qualitative data into quantitative  
गुणात्मक तथ्यों को गणनात्मक तथ्यों में बदलती है



Convert quantitative data into qualitative  
गणनात्मक तथ्यों को गुणात्मक में बदलना

2. ✘

Measurement of qualitative facts  
गुणात्मक तथ्यों का अनुमापन

3. ✘

Analysis of quantitative facts  
गणनात्मक तथ्यों का विश्लेषण

4. ✘

**Question Number : 29 Question Id : 8740815646 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 study where the investigators introduce an intervention and observe the events which take place is called :

एक अध्ययन जहाँ जाँचकर्ता हस्तक्षेप करते हैं और उन घटनाओं का निरीक्षण करते हैं, जो घटित होती है :

**Options :**

Observational Study  
पर्यवेक्षणीय अध्ययन

1. ✘

Descriptive Study  
वर्णनात्मक अध्ययन

2. ✘

Case-Control Study  
नियंत्रित रेगी अध्ययन

3. ✘

Experimental Study  
प्रयोगात्मक अध्ययन

4. ✔

**Question Number : 30 Question Id : 8740815647 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 research problem is considered to be good, if it meets the following criteria :

एक शोध समस्या को तब अच्छा माना जाता है, जब निम्नलिखित मानदण्डों को वह पूरा करती है :

Options :

1. ✘ Fit, inconvenient, Noble, Ethnic, Revolving (FINER)  
फिट, असुविधाजनक, महान, जातीय, परिक्रामी
2. ✔ Feasible, Interesting, Novel, Ethical and Relevant (FINER)  
व्यवहार्य, दिलचस्प, नवीन, नैतिक और प्रासंगिक
3. ✘ Fluctuating, Innocuous, Noticeable, Entrepreneur, Residual (FINER)  
रूपांतरित, अहानिकर, ध्यान देने योग्य, उद्यमी, अवशिष्ट
4. ✘ Foolish, Imperfect, Natural, Erratic, Revolutionary (FINER)  
मूर्खतापूर्ण, अपूर्ण, प्राकृतिक, गलत, क्रांतिकारी

Question Number : 31 Question Id : 8740815648 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

COPE stands for :

COPE का अर्थ है :

Options :

1. ✘ Committee on Publication Errors  
प्रकाशन त्रुटियों पर समिति
2. ✔ Committee on Publication Ethics  
प्रकाशन नैतिकता पर समिति
3. ✘ Commission of Potential Editors  
संभावित संपादकों का आयोग
4. ✘ Community-based Outputs for Public Education  
सार्वजनिक शिक्षा के लिए समुदाय आधारित आउटपुट

Question Number : 32 Question Id : 8740815649 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

Each of the following is true about cross sectional study, EXCEPT :

निम्नलिखित में से प्रत्येक परा-अनुभागीय अध्ययन के बारे में सच है, सिवाय :

Options :

1. ✘ Unable to measure incidence  
व्यापकता (incidence) को मापने में असमर्थ
2. ✔ Data are collected at multiple points in time  
समय में कई बिन्दुओं पर डेटा एकत्र किया जाता है
3. ✘ Relatively quick and easy to conduct  
अपेक्षाकृत जल्दी और आचरण में आसान
4. ✘ Able to measure the prevalence  
प्रचलन (prevalence) को मापने में सक्षम

Question Number : 33 Question Id : 8740815650 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

Standard Error is nothing but :

मानक त्रुटि है :

Options :

1. ✘ Standard deviation of population distribution  
पॉपुलेशन वितरण का मानक विचलन
2. ✘ Dispersion Error  
फैलाव त्रुटि
3. ✔ Standard deviation of sampling distribution  
सैम्पल वितरण का मानक विचलन

## Conceptual Error

### वैचारिक त्रुटि

4. ✘

**Question Number : 34 Question Id : 8740815651 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

DOI in a published research paper stands for :

एक प्रकाशित शोध पत्र में डी० ओ० आई० का अर्थ है :

Options :

Directory of Index

सूचकांक की निर्देशिका

1. ✘

Digital Objective Index

डिजिटल उद्देश्य सूचकांक

2. ✘

Direct Object Identifiers

प्रत्यक्ष वस्तु पहचानकर्ता

3. ✘

Digital Object Identifier

डिजिटल ऑब्जेक्ट पहचानकर्ता

4. ✔

**Question Number : 35 Question Id : 8740815652 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 techniques used for controlling experimenter bias ?

प्रयोगकर्ता पूर्वाग्रह को नियंत्रित करने के लिए निम्नलिखित में से कौन-सी तकनीक का उपयोग किया जाता है ?

Options :

Double eyed technique

डबल-आइड तकनीक

1. ✘



Open eyed technique

2. ✘ ओपन-आइड तकनीक

Double blind technique

3. ✔ डबल-ब्लाइंड तकनीक

Open blind technique

4. ✘ ओपन-ब्लाइंड तकनीक

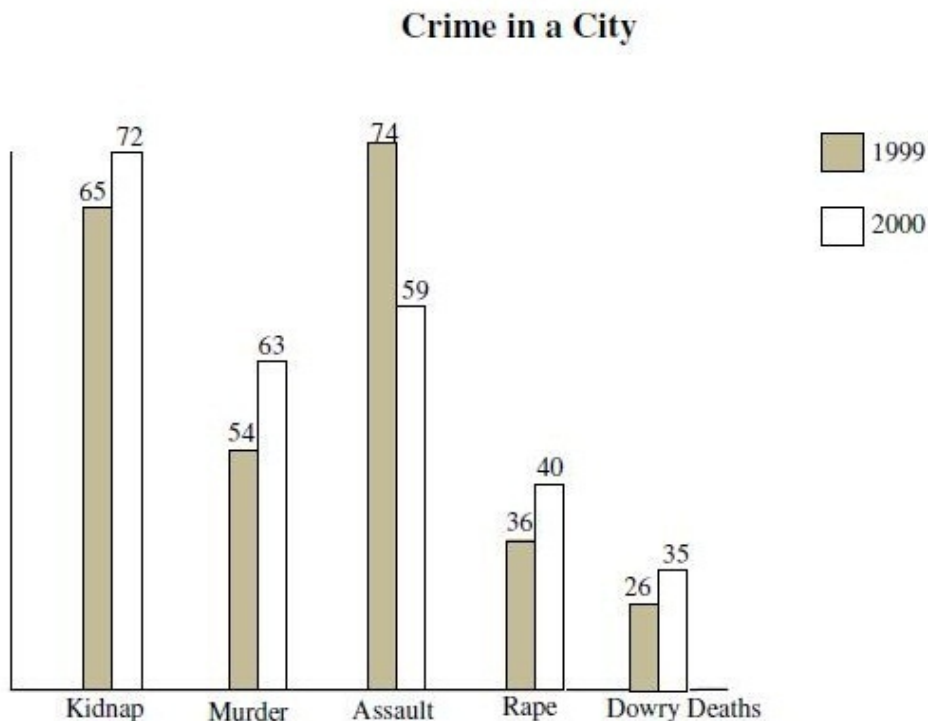
Question Number : 36 Question Id : 8740815653 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Study the following graph and answer the question :

निम्नलिखित ग्राफ का अध्ययन करें और प्रश्न का उत्तर दें :



What was difference in crime between 1999 and 2000 ?

1999 और 2000 के बीच क्राइम में कितना अन्तर था ?

Options :

1. ✔ 14



- 2. ✘ 16
- 3. ✘ 18
- 4. ✘ 20

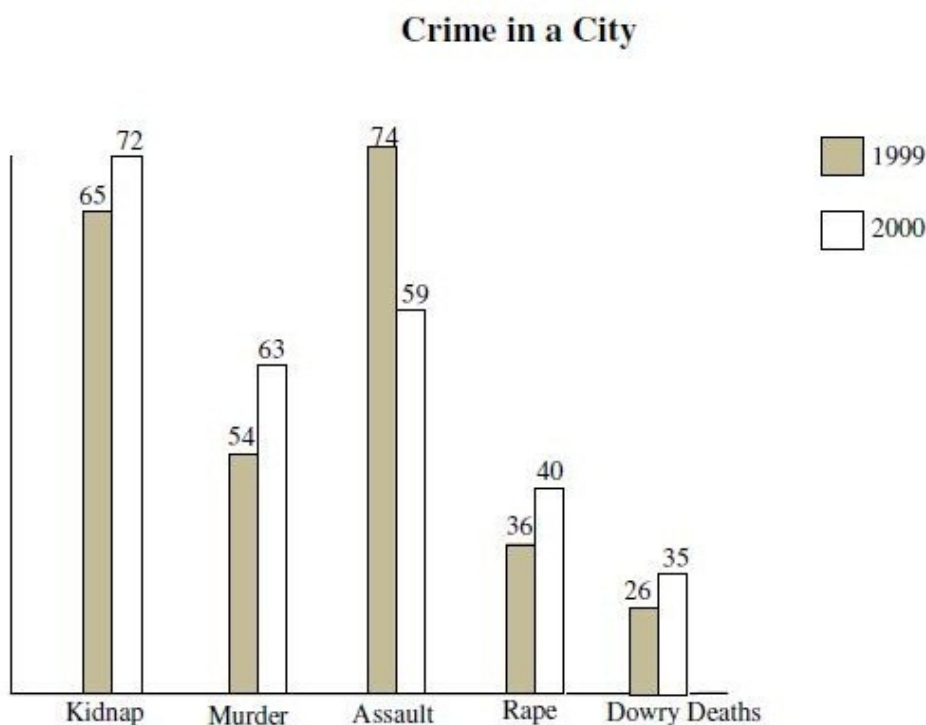
Question Number : 37 Question Id : 8740815654 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Study the following graph and answer the question :

निम्नलिखित ग्राफ का अध्ययन करें और प्रश्न का उत्तर दें :



What was increase percent in rape from 1999 to 2000 ?  
 वर्ष 1999 से 2000 में रेप में वृद्धि प्रतिशत कितना था ?

Options :

- 1. ✔ 11%
- 2. ✘ 40%

3. ✖ 15%

4. ✖ 30%

Question Number : 38 Question Id : 8740815655 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

Study the following graph and answer the following question :

निम्नलिखित ग्राफ का अध्ययन करें और दिए गए प्रश्न का उत्तर दें :

### Students Going Abroad for Study from Different States/UTs

विभिन्न राज्यों / केंद्र शासित प्रदेशों से अध्ययन के लिए विदेश जाने वाले छात्र

State/U.T.	Year				
	1995	1996	1997	1998	1999
Maharashtra	723	840	900	920	925
Kerala	1035	940	1200	1400	1500
Karnataka	750	600	830	575	900
West Bengal	500	550	450	600	525
Delhi	1500	1625	1700	1475	1800
Andhra Pradesh	800	840	875	925	785
Total	5308	5395	5955	5895	6435

What was the percentage increase in the number of students from West Bengal from 1997 to 1998 ?

1997 से 1998 तक पश्चिम बंगाल के छात्रों की संख्या में कितने प्रतिशत की वृद्धि हुई थी ?

Options :

1. ✖  $66\frac{2}{3}$

2. ✓  $33\frac{1}{3}$

3. ✗ 150

4. ✗ 50

**Question Number : 39 Question Id : 8740815656 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

*Study the following graph and answer the following question :*

निम्नलिखित ग्राफ का अध्ययन करें और दिए गए प्रश्न का उत्तर दें :

### Students Going Abroad for Study from Different States/UTs

विभिन्न राज्यों / केंद्र शासित प्रदेशों से अध्ययन के लिए विदेश जाने वाले छात्र

State/U.T.	Year				
	1995	1996	1997	1998	1999
Maharashtra	723	840	900	920	925
Kerala	1035	940	1200	1400	1500
Karnataka	750	600	830	575	900
West Bengal	500	550	450	600	525
Delhi	1500	1625	1700	1475	1800
Andhra Pradesh	800	840	875	925	785
Total	5308	5395	5955	5895	6435

In the case of which State/U.T. was there a continuous increase in the number of students over the given years ?

किस राज्य / यू.टी. के मामले में दिए गए वर्षों में छात्रों की संख्या में लगातार वृद्धि हुई है ?

**Options :**

1. ✘ Kerala  
केरल
2. ✘ Delhi  
दिल्ली
3. ✘ Andhra Pradesh  
आन्ध्र प्रदेश
4. ✔ Maharashtra  
महाराष्ट्र

**Question Number : 40 Question Id : 8740815657 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

Identify the citation style if an article is cited in the following manner Kammer, Minian. "Breaking the bounds of Domesticity : Ecofeminism and nature space in Love's Labour's lost" Shakespeare Bulletin, vol. 36, no. 3, 2018, pp. 467-483 :

यदि कोई लेख निम्नलिखित तरीके से उद्धृत किया गया है, तो उद्धरण शैली को पहचानें-  
केमर, मिनियन। ब्रेकिंग द बाउण्ड्स ऑफ डोमेस्टिसिटी : इकोफेमिनिज्म एंड नेचर स्पेस  
इन लव लेबर्स लॉस्ट शेक्सपियर बुलेटिन, vol. 36, no. 3, 2018, pp. 467-483 :

**Options :**

1. ✘ APA  
एपीए
2. ✘ Harvard  
हार्वर्ड
3. ✔ MLA  
एमएलए
4. ✘ Chicago  
शिकागो



## Subject\_&\_Area Concerned

Section Id :	87408195
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	60
Number of Questions to be attempted :	60
Section Marks :	180
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	874081137
Question Shuffling Allowed :	Yes

Question Number : 41 Question Id : 8740815658 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 nutrient ion is most mobile in the plant ?

Options :

1. ✘  $\text{Ca}^{2+}$

2. ✘  $\text{Mg}^{2+}$

3. ✔  $\text{K}^{+}$

4. ✘  $\text{Zn}^{2+}$

Question Number : 42 Question Id : 8740815659 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

Disulphide bond is present in which of the following amino acid :

Options :

1. ✘ Methionine

2. ✔ Cystine

3. ✘ Cysteine

4. ✘ Leucine

**Question Number : 43 Question Id : 8740815660 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 device to measure the amount of actual evapotranspiration which is released by soil-plant system :

**Options :**

1. ✘ Infiltrometer

2. ✔ Lysimeter

3. ✘ Hydrometer

4. ✘ Hygrometer

**Question Number : 44 Question Id : 8740815661 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 material has highest specific heat ?

**Options :**

1. ✔ Water

2. ✘ Dry soil
3. ✘ Moist soil
4. ✘ Humus

**Question Number : 45 Question Id : 8740815662 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 phenomenon that helps in determining the charge of the colloidal particles :

Options :

1. ✘ Diffusion
2. ✘ Electrolysis
3. ✘ Osmosis
4. ✔ Cataphoresis

**Question Number : 46 Question Id : 8740815663 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 unit of AEC is :

Options :

1. ✘  $\text{c mol (p}^+\text{)kg}^{-1}$
2. ✘  $\text{c mol (p}^-\text{)kg}^{-1}$
3. ✔  $\text{c mol (e}^-\text{) kg}^{-1}$

4. ✘  $\text{c mol kg}^{-1}$

**Question Number : 47 Question Id : 8740815664 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 is not a hydrolyase enzyme ?

**Options :**

1. ✘ Phosphatases

2. ✔ Catalase

3. ✘ Proteases

4. ✘ Aryl sulphatases

**Question Number : 48 Question Id : 8740815665 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

Availability of which of the following plant nutrient is most closely governed by soil

pH :

**Options :**

1. ✘ Nitrogen

2. ✔ Phosphorus

3. ✘ Potassium

4. ✘ Carbon

**Question Number : 49 Question Id : 8740815666 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 essential plant nutrient can be taken up by plant root either as a cation or an anion ?

**Options :**

1. ✘ B

2. ✘ Ca

3. ✘ K

4. ✔ N

**Question Number : 50 Question Id : 8740815667 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

Rank the following listed moisture regimes from driest to wettest :

**Options :**

1. ✘ Udic, Aquic, Aridic

2. ✘ Aquic, Udic, Aridic

3. ✔ Xeric, Udic, Aquic

4. ✘ Udic, Xeric, Aquic

**Question Number : 51 Question Id : 8740815668 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 diagnostic surface horizon ?

**Options :**

1. ✓ Ochric
2. ✗ Spodic
3. ✗ Natric
4. ✗ Agric

**Question Number : 52 Question Id : 8740815669 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

Most homogenous category in soil taxonomy is :

**Options :**

1. ✗ Order
2. ✓ Series
3. ✗ Sub order
4. ✗ Great groups

**Question Number : 53 Question Id : 8740815670 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 combination horizon ?

**Options :**

1. ✘ AB
2. ✘ BC
3. ✔ C/B
4. ✘ CB/A

**Question Number : 54 Question Id : 8740815671 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 soil order has properties of slickensides ?

**Options :**

1. ✘ Oxisols
2. ✔ Vertisols
3. ✘ Entisols
4. ✘ Ultisols

**Question Number : 55 Question Id : 8740815672 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

Grade/Class/Type sequence is used to describe :

**Options :**

1. ✘ Soil Taxonomy

2. ✘ Soil Colour
3. ✔ Soil Structure
4. ✘ Soil Consistence

**Question Number : 56 Question Id : 8740815673 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 Land capability classification, "Land suitable for cultivation" are from class :

**Options :**

1. ✘ I to III
2. ✔ I to IV
3. ✘ I to V
4. ✘ I to VI

**Question Number : 57 Question Id : 8740815674 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

Amorphous minerals are dominant in :

**Options :**

1. ✔ Andisols
2. ✘ Vertisols
3. ✘ Alfisols



4. ✘ Gelisols

**Question Number : 58 Question Id : 8740815675 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

Designation of genetic horizon express a :

**Options :**

1. ✘ Quantitative Judgement
2. ✔ Qualitative Judgement
3. ✘ Genetic Judgement
4. ✘ Diagnostic Judgement

**Question Number : 59 Question Id : 8740815676 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-horizon is differentiated from E- horizon by :

**Options :**

1. ✔ Dark colour and more organic matter
2. ✘ Light colour and less organic matter
3. ✘ Dark colour and less organic matter
4. ✘ Grey colour and less organic matter

**Question Number : 60 Question Id : 8740815677 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

Root restricting sub soil layer due to human manufactured material is designated by :

Options :

1. ✘ L-horizon
2. ✔ M-horizon
3. ✘ W-horizon
4. ✘ B-horizon

Question Number : 61 Question Id : 8740815678 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

Designation 'z' is used for :

Options :

1. ✔ Accumulation of salts
2. ✘ Accumulation of silica
3. ✘ Accumulation of clay
4. ✘ Accumulation of sodium

Question Number : 62 Question Id : 8740815679 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 instrumental assay vibrational energy of the constituent atoms in a molecule is quantified ?

Options :

1. ✘ Flame photometer
2. ✘ UV-VIS-Spectrophotometer
3. ✔ IR Spectrophotometer
4. ✘ Atomic Absorption Spectrophotometer

**Question Number : 63 Question Id : 8740815680 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 accumulation of glacial drift formed chiefly by the direct deposition from glacial ice is known as :

Options :

1. ✔ Moraine
2. ✘ Monera
3. ✘ Mole drain
4. ✘ Mottle

**Question Number : 64 Question Id : 8740815681 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

Mollisols order is found in :

Options :

1. ✘ Red soil
2. ✘ Black soil

3. ✓ Tarai soil

4. ✗ Alluvial soil

**Question Number : 65 Question Id : 8740815682 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 strength of soil crust is measured by :

**Options :**

1. ✗ Voltmeter

2. ✗ Radiometer

3. ✓ Penetrometer

4. ✗ Potentiometer

**Question Number : 66 Question Id : 8740815683 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

Percent CO<sub>2</sub> content in soil air is :

**Options :**

1. ✗ 0.03

2. ✓ 0.3

3. ✗ 0.05

4. ✗ 0.5

**Question Number : 67 Question Id : 8740815684 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

Calculate the percentage pore space in a soil with a bulk density of  $1.4 \text{ Mg/m}^3$  and particle density of  $2.6 \text{ Mg/m}^3$  :

Options :

1. ✘ 44.15

2. ✘ 45.15

3. ✔ 46.15

4. ✘ 47.15

Question Number : 68 Question Id : 8740815685 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 lattice hole theory was given by :

Options :

1. ✔ Page and Baver

2. ✘ White and Beckett

3. ✘ Thomas Way

4. ✘ J. N. Mukherjee

Question Number : 69 Question Id : 8740815686 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

Inositol is a type of organic :

Options :

1. ✘ Nitrogen
2. ✔ Phosphorus
3. ✘ Sulphur
4. ✘ Molybdenum

Question Number : 70 Question Id : 8740815687 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 cation is mainly known to cause flocculation of soil particle ?

Options :

1. ✔  $\text{Ca}^{++}$
2. ✘  $\text{Mg}^{++}$
3. ✘  $\text{K}^{+}$
4. ✘  $\text{Na}^{+}$

Question Number : 71 Question Id : 8740815688 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 unit change in pH represents a change of  $\text{H}^{+}$  ion activity by :

Options :

1. ✘ One fold
2. ✘ Ten fold

3. ✘ Hundred fold
4. ✔ Thousand fold

**Question Number : 72 Question Id : 8740815689 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

Hymatomelanic acid is soluble in :

**Options :**

1. ✘ Dilute acid
2. ✘ Dilute alkali
3. ✘ Both Dilute acid and Dilute alkali
4. ✔ Alcohol

**Question Number : 73 Question Id : 8740815690 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

Ion activity coefficient is calculated by :

**Options :**

1. ✔ Debye-Huckel equation
2. ✘ Donnan equation
3. ✘ Vant Hoff equation
4. ✘ Henderson-Hasselbach equation

**Question Number : 74 Question Id : 8740815691 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 coordination number of  $Al^{3+}$  ion in Phyllosilicate mineral is :

Options :

1. ✘ One

2. ✔ Six

3. ✘ Three

4. ✘ Four

**Question Number : 75 Question Id : 8740815692 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 black cotton soils of India are derived from :

Options :

1. ✘ Lime stone

2. ✘ Graphite

3. ✘ Quartz

4. ✔ Basalt

**Question Number : 76 Question Id : 8740815693 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

Organic carbon content of soil is not an indicator of :

Options :

1. ✘ P status of soil
2. ✔ K status of soil
3. ✘ N status of soil
4. ✘ S status of soil

**Question Number : 77 Question Id : 8740815694 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

SMP buffer is used in :

Options :

1. ✔ Lime requirement
2. ✘ Gypsum requirement
3. ✘ Phosphate potential
4. ✘ Lime potential

**Question Number : 78 Question Id : 8740815695 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 element is considered as energy currency for the plant :

Options :

1. ✘ N



2. ✓ P

3. ✗ K

4. ✗ Mo

**Question Number : 79 Question Id : 8740815696 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 relationship is correct ?

**Options :**

1. ✓  $P_2O_5 \times 0.44 = P$

2. ✗  $P_2O_5 \times 2.29 = P$

3. ✗  $P_2O_5 \times 0.83 = P$

4. ✗  $P_2O_5 \times 1.20 = P$

**Question Number : 80 Question Id : 8740815697 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 India, which fertilizer manufactured first ?

**Options :**

1. ✗ Urea

2. ✗ DAP

3. ✓ SSP

4. ✘ MOP

**Question Number : 81 Question Id : 8740815698 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

Acid used in manufacturing of single super phosphate is :

Options :

1. ✘ Hydrochloric acid
2. ✘ Nitric acid
3. ✘ Phosphoric acid
4. ✔ Sulphuric acid

**Question Number : 82 Question Id : 8740815699 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

'Langbeinite' is the raw material used in manufacturing of :

Options :

1. ✘ Urea
2. ✘ Triple Super Phosphate
3. ✔ Potassium Sulphate
4. ✘ Muriate of Potash

**Question Number : 83 Question Id : 8740815700 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 is not a specific pedogenic process ?

**Options :**

1. ✘ Calcification
2. ✘ Podzolization
3. ✔ Humification
4. ✘ Laterization

**Question Number : 84 Question Id : 8740815701 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

Cation exchange capacity is lowest in :

**Options :**

1. ✘ Illite
2. ✔ Kaolinite
3. ✘ Vermiculite
4. ✘ Montmorillonite

**Question Number : 85 Question Id : 8740815702 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 the microbes are involved in the process of nitrification ?

**Options :**

1. ✘ Heterotrophs
2. ✘ Phototrophs
3. ✔ Autotrophs
4. ✘ Organotrophs

**Question Number : 86 Question Id : 8740815703 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 most appropriate for asymbiotic nitrogen fixation in paddy crop because of its microaerophilic nature ?

**Options :**

1. ✘ *Azotobacter*
2. ✘ *Nitrobacter*
3. ✔ *Azospirillum*
4. ✘ *Pseudomonas*

**Question Number : 87 Question Id : 8740815704 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 right term for an interaction between two microbial species where one is suppressed while other is benefitted because of toxin production ?

**Options :**

1. ✘ Proto-cooperation

2. ✘ Commensalism
3. ✘ Competition
4. ✔ Amensalism

**Question Number : 88 Question Id : 8740815705 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 anaerobic free living nitrogen fixing bacteria ?

**Options :**

1. ✘ *Azotobacter*
2. ✘ *Beijerinckia*
3. ✘ *Derxia*
4. ✔ *Clostridium*

**Question Number : 89 Question Id : 8740815706 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

Who first time proposed the "Germ Theory of Diseases' ?

**Options :**

1. ✘ Joseph Lister
2. ✔ Robert Koch
3. ✘ Louis Pasteur



4. ✘ John Needham

**Question Number : 90 Question Id : 8740815707 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 high will water moves up a capillary tube whose radius is uniformly 0.001 mm ?

Options :

1. ✘ 15 mm

2. ✔ 15 cm

3. ✘ 7.5 mm

4. ✘ 7.5 cm

**Question Number : 91 Question Id : 8740815708 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

Overall, how many ATPs are required to fix one molecule of nitrogen during biological nitrogen fixation ?

Options :

1. ✘ 12

2. ✔ 16

3. ✘ 20

4. ✘ 24

**Question Number : 92 Question Id : 8740815709 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 would be the opening size of 100 mesh sieve ?

Options :

1. ✘ 0.8 mm
2. ✘ 1.6 mm
3. ✔ 0.16 mm
4. ✘ 0.08 mm

**Question Number : 93 Question Id : 8740815710 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 pF value at hygroscopic coefficient would be equal to :

Options :

1. ✘ 2.53
2. ✘ 4.18
3. ✔ 4.5
4. ✘ 7

**Question Number : 94 Question Id : 8740815711 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 ionic strength of 0.01 M  $\text{CaCl}_2$  solution is :

Options :

1. ✘ 0.01 M
2. ✘ 0.02 M
3. ✔ 0.03 M
4. ✘ 0.04 M

**Question Number : 95 Question Id : 8740815712 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

Yoder apparatus can be used for determination of which of the following property :

**Options :**

1. ✘ Soil texture
2. ✘ Wilting point
3. ✔ Aggregate Stability
4. ✘ Bulk density

**Question Number : 96 Question Id : 8740815713 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 matric suction / potential at the field capacity of soil is :

**Options :**

1. ✔ 0.33 bar
2. ✘ 2 bar
3. ✘ 15 bar

4. ✘ 31 bar

**Question Number : 97 Question Id : 8740815714 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 relationship representing the flux of nutrient movement in soil is directly proportional to concentration gradient is given by :

**Options :**

1. ✔ Fick's Law
2. ✘ Bernoulli's equation
3. ✘ Darcy's Law
4. ✘ Navier-Stokes equation

**Question Number : 98 Question Id : 8740815715 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 porosity of a soil mass is 32.10%. What is its void ratio expressed in percent ?

**Options :**

1. ✔ 47.28
2. ✘ 52.38
3. ✘ 67.90
4. ✘ 72.80

**Question Number : 99 Question Id : 8740815716 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

Darcy's law is valid :

**Options :**

1. ✘ For all conditions of liquid flow in porous media
2. ✘ At high flow velocities
3. ✘ When hydraulic gradients are much in excess of unity
4. ✔ Only when the flow is laminar

**Question Number : 100 Question Id : 8740815717 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

According to Poiseuille's law, discharge of water through pipes of 1 cm radius is higher than through a pipe of 1 mm radius by :

**Options :**

1. ✘ 10 times
2. ✘ 100 times
3. ✘ 1000 times
4. ✔ 10000 times