

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:	997
Subject Name:	997
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Magnifying Glass Required?:	No
Ruler Required?:	No
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Scratch Pad Required?:	No
Rough Sketch/Notepad Required?:	No
Protractor Required?:	No
Show Watermark on Console?:	Yes
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Auto Save on Console?:	No

Integrated_M_Phil_Ph_D_Programme_in_Life_Science

Group Number :	1
Group Id :	45489337
Group Maximum Duration :	0
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Revisit allowed for edit? :	No
Break time:	0
Group Marks:	300

Research_Methodology

Section Id :	45489352
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	40
Number of Questions to be attempted:	40
Section Marks:	120
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	45489362

Question Number : 1 Question Id : 4548934879 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The focus of Scientific method is on :

वैज्ञानिक पद्धति मुख्य बल देता है :

Options :

Analytical research

1. ✘ विश्लेषणात्मक शोध

Objective research

2. ✔ वस्तुनिष्ठ शोध

Clinical research

3. ✘ उपचारात्मक शोध

Social research

4. ✘ सामाजिकशोध

Question Number : 2 Question Id : 4548934880 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Theory of Syllogism is related with :

सिद्धान्तवाद का सिद्धान्त सम्बन्धित है :

Options :

Inductive method

1. ✘ आगमन विधि

Deductive method

2. ✔ निगमन विधि

Observation method

3. ✘ पर्यवेक्षण विधि

Linear method

4. ✘ रेखीय पद्धति

Question Number : 3 Question Id : 4548934881 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

There is no difference between two situations, groups, outcomes, or the prevalence of a condition or phenomenon. This is called a :

दो स्थितियों, समूहों, परिणामों या घटना की व्यापकता में कोई अंतर नहीं है। इसे कहते हैं :

Options :

1. Null hypothesis
शून्य परिकल्पना
2. Alternative hypothesis
वैकल्पिक परिकल्पना
3. Hypothesis of association
साहचर्य की परिकल्पना
4. Logical Hypothesis
तार्किक परिकल्पना

Question Number : 4 Question Id : 4548934882 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

When a teacher's assessment of the performance of a student in one subject may influence his/her rating of that student's performance in another, this type of effect is known as the :

जब किसी छात्र का किसी एक विषय में कार्य-निष्पादन के मूल्यांकन का प्रभाव अन्य विषयों पर पड़ता है, तो उसे क्या कहते हैं ?

Options :

1. Elevation effect
उत्कर्ष प्रभाव
2. Halo effect
प्रभामण्डल प्रभाव
3. Hollow effect
खोखला प्रभाव
4. Interaction effect
अन्तरक्रिया प्रभाव

Question Number : 5 Question Id : 4548934883 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Assigning numerals or other symbols to the categories or response is called :

प्राप्त अनुक्रिया (उत्तर) अथवा वर्गीकरण (प्रवर्ग) को अंक या प्रतीक चिह्न देने की प्रक्रिया को कहते हैं ?

Options :

Editing

1. ✘ सम्पादन

Coding

2. ✔ कूट बद्ध (कोडिंग)

Transcription

3. ✘ प्रतिलिपीकरण

Tabulation

4. ✘ सारणीयन

Question Number : 6 Question Id : 4548934884 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is a method that is commonly used in qualitative research ?

निम्न में से किस पद्धति का सामान्यतः गुणात्मक शोध में प्रयोग होता है ?

Options :

Survey

1. ✘ सर्वेक्षण

Structured observation

2. ✘ संरचित अवलोकन

Ethnography

3. ✔ नृवंश विज्ञान (मानव जाति वर्णन)

Self-completion questionnaire

4. ✘ स्वतः-पूरित प्रश्नावली

Question Number : 7 Question Id : 4548934885 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A technique of building up a list or a sample of a special population by using an initial set of members as informants is called :

प्रारम्भिक सदस्यों को सूचनादाता के रूप में लेते हुए सूची बनाने की पद्धति या विशिष्ट जनसंख्या का नमूना चुनना कहलाता है :

Options :

- Quota sampling
- 1. ✘ कोटा प्रतिचयन
- Convenience sampling
- 2. ✘ सुविधाजनक प्रतिचयन
- Snow ball sampling
- 3. ✔ स्नो बॉल प्रतिचयन
- Purposive sampling
- 4. ✘ सोद्देश्य प्रतिचयन

Question Number : 8 Question Id : 4548934886 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Selecting sample units in just a "hit and miss" fashion is called :

मारो एवं चूको (hit & miss) पद्धति से नमूना चुनने को कहते हैं :

Options :

- Convenience or accidental sampling
- 1. ✔ सुविधाजनक या दुर्घटना प्रतिचयन
- Purposive sampling
- 2. ✘ सोद्देश्य प्रतिचयन
- Stratified sampling
- 3. ✘ स्तरीकृत प्रतिचयन
- Proportionate sampling
- 4. ✘ आनुपातिक प्रतिचयन

Question Number : 9 Question Id : 4548934887 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Population value is called :

जनसंख्या मूल्य कहलाता है :

Options :

Statistic

1. ✘ सांख्यिकीय

Parameter

2. ✔ पैरामीटर (प्राचल)

Variable

3. ✘ चर

Core value

4. ✘ मुख्य मान

Question Number : 10 Question Id : 4548934888 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which is the first step in Execution of Research Protocol ?

अनुसंधान प्रोटोकॉल के क्रियान्वयन में पहला कदम होता है :

Options :

Background Literature Survey

1. ✘ पृष्ठभूमि साहित्य अवलोकन

Formulating Objectives

2. ✘ उद्देश्य तैयार करना

Conceptualizing the Problem

3. ✔ समस्या की अवधारणा करना

Selection of Sample

4. ✘ नमूनों का चयन

Question Number : 11 Question Id : 4548934889 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is Non Probability type of sampling ?

निम्न में से कौन-सा अप्रायिकता/गैर संभावना वाला नमूना संग्रह की विधि है ?

Options :

Simple random

1. ✘ सरल यादृच्छिक

Stratified

2. ✘ स्तरित

Multi stage

3. ✘ बहुस्तरीय

Snow ball

4. ✔ स्नोबॉल

Question Number : 12 Question Id : 4548934890 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which is the principle of ethics in research which requires an Equal distribution of Burden & Benefit ?

शोध में आचार के किस सिद्धान्त में बोझ एवं फायदे का बँटवारा बराबर का होता है ?

Options :

Beneficence

1. ✘ बेनेफिसेन्स (उपकार)

Respect for Rights

2. ✘ अधिकारों के लिए आदर

Justice

3. ✔ न्याय

Confidentiality

4. ✘ गोपनीयता

Question Number : 13 Question Id : 4548934891 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The use of Someone's idea/work as one's own without properly acknowledging is termed as :

किसी अन्य व्यक्ति के विचार या कार्य को उसकी उचित आभारोक्ति के बिना अपने नाम से प्रयोग करने को कहते हैं :

Options :

Citation

उद्धरण

1. ✘

Acknowledgement

आभारोक्ति

2. ✘

Reference

संदर्भ

3. ✘

Plagiarism

साहित्यिक चोरी

4. ✔

Question Number : 14 Question Id : 4548934892 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Rejection of Null Hypothesis eventhough it is true is known as :

सत्य होने के बाद भी शून्य परिकल्पना को अस्वीकृत करना क्या कहलाता है ?

Options :

Type I Error

टाइप I त्रुटि

1. ✔

Type II Error

टाइप II त्रुटि

2. ✘

Sampling Error

प्रतिचयन त्रुटि

3. ✘

Non-sampling Error

गैर-प्रतिचयन त्रुटि

4. ✘

Question Number : 15 Question Id : 4548934893 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Correlation between two variables is best viewed in :

दो परिवर्तनशीलों के बीच सह संबद्धता सबसे अच्छे तरीके से देखी जा सकती है :

Options :

Scatter plot

1. ✓ स्केटर प्लॉट

Bar Graph

2. ✗ बार रेखांकन

Pie Diagram

3. ✗ पाई आरेख

Histogram

4. ✗ हिस्टोग्राम

Question Number : 16 Question Id : 4548934894 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The trend of events along with passage of time can be shown by :

घटनाओं की प्रवृत्ति को समय के साथ किसके द्वारा प्रदर्शित किया जा सकता है ?

Options :

Bar Graph

1. ✗ बार रेखांकन

Line Diagram

2. ✓ रेखा चित्र

Pie Chart

3. ✗ पाई चार्ट

Scatter plot

4. ✗ स्केटर प्लॉट

Question Number : 17 Question Id : 4548934895 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one is *not* a threat of internal validity ?

निम्नलिखित में से कौन आंतरिक वैधता के लिए खतरा *नहीं* है ?

Options :

Selection bias

1. ✘ चयन पूर्वाग्रह

Maturation

2. ✘ परिपक्वता

Mortality

3. ✘ मर्त्यता (मॉर्टेलिटि)

Artificiality

4. ✔ कृत्रिमता

Question Number : 18 Question Id : 4548934896 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The investigator wants to study the association between smoking and lung cancer. The statistical test used in that situation is :

अन्वेषक धूम्रपान एवं फेफड़े के कैंसर का साहचर्य अध्ययन करना चाहता है। इस अवस्था में कौन-से सांख्यिकीय परीक्षण का इस्तेमाल करेगा ?

Options :

Chi-square test

1. ✔ काई-स्क्वायर टेस्ट

t-test

2. ✘ टी-टेस्ट

ANOVA test

3. ✘ एनोवा टेस्ट

Repeated measures ANOVA test

4. ✘ रिपीटेड मेजर एनोवा टेस्ट

Question Number : 19 Question Id : 4548934897 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Questions that have few fixed number of options given as answer are called :

वो प्रश्न जिनमें उत्तर के रूप में कुछ निर्धारित विकल्प दिए होते हैं उन्हें कहा जाता है :

Options :

Open ended questions

1. ✘ खुले सिरे वाले प्रश्न

Unstructured questions

2. ✘ असंरचित प्रश्न

Structured questions

3. ✔ संरचित प्रश्न

All of the three

4. ✘ तीनों में सभी

Question Number : 20 Question Id : 4548934898 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

All of the following are advantages of longitudinal designs over cross-sectional designs *except* :

इनमें से कौन-सा अनुदैर्घ्य प्रतिकल्प का अनुभागीय प्रतिकल्प के ऊपर फायदा *नहीं* है ?

Options :

Detecting change

1. ✘ परिवर्तन का पता लगाना

Accuracy

2. ✘ शुद्धता

Large amount of data collection

3. ✘ बड़ी मात्रा में डाटा संकलन

Representative sampling

4. ✔ प्रतिनिधि नमूना

Question Number : 21 Question Id : 4548934899 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is *true* of a research report ?
निम्नलिखित में से कौन एक शोध रिपोर्ट के संबंध में *सत्य* है ?

Options :

An ideal is to include every detail about the research as fully as possible.

एक आदर्श के रूप में जितना संभव हो सके अनुसंधान के बारे में हर विवरण को शामिल करना है।

1. ✓

A research report presents the stages of the research accurately down to the last detail and in the order in which they occurred.

एक शोध रिपोर्ट शोध के चरणों को अंतिम विवरण तक और उस क्रम में प्रस्तुत करती है जिसमें वे घटित हुए थे।

2. ✗

A research report presents the stages of the research accurately down to the last detail and in the order in which they occurred.

एक शोध रिपोर्ट शोध के चरणों को अंतिम विवरण तक और उस क्रम में प्रस्तुत करता है जिसमें वे घटित हुए थे।

3. ✗

A research report gives every last detail of the major and critical aspects of the research process.

एक शोध रिपोर्ट अनुसंधान प्रक्रिया के प्रमुख और महत्वपूर्ण पहलुओं का हर अंतिम विवरण देता है।

4. ✗

Question Number : 22 Question Id : 4548934900 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Formulation of hypothesis enhances in the study.

परिकल्पना का प्रतिपादन अध्ययन में बढ़ाता है।

Options :

Central tendency

1. ✓ केंद्रीय प्रवृत्ति

Subjectivity

2. ✗ आत्मपरकता

Reliability

3. ✗ विश्वसनीयता

Usability

4. ✗ व्यवहार्यता

Question Number : 23 Question Id : 4548934901 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The standard error of the estimate is a type of measure of :

अनुमान की मानक त्रुटि एक प्रकार की माप है :

Options :

Central tendency

1. ✘ केंद्रीय प्रवृत्ति

Accuracy

2. ✘ सटीकता

Significance

3. ✘ सार्थकता

Standard deviation

4. ✔ मानक विचलन

Question Number : 24 Question Id : 4548934902 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Estimates of precision are possible with which kind of samples ?

किस प्रकार के नमूनों से शुद्धता का अनुमान संभव है ?

Options :

Non probability

1. ✘ अप्रायिकता

Probability

2. ✔ प्रायिकता

Quota

3. ✘ कोटा

Judgement

4. ✘ निर्णय

Question Number : 25 Question Id : 4548934903 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The term "Phenomenology" is associated with the process of :

“फेनोमेनोलॉजी” शब्द किसकी प्रक्रिया से जुड़ा है ?

Options :

1. ✘ Probability sampling
सम्भाव्यता प्रतिचयन
2. ✘ Correlational study
सहसंबंधी अध्ययन
3. ✘ Analysis of variance
प्रसरण का विश्लेषण
4. ✔ Qualitative Research
गुणात्मक शोध

Question Number : 26 Question Id : 4548934904 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The scale which is having absolute zero called as :

पैमाना जिसमें पूर्ण शून्य होता है कहा जाता है :

Options :

1. ✔ Ratio Scale
अनुपात पैमाना
2. ✘ Interval or Numeric Scale
अंतराल या संख्यात्मक पैमाना
3. ✘ Nominal Scale
सांकेतिक पैमाना
4. ✘ Ordinal Scale
क्रमसूचक पैमाना

Question Number : 27 Question Id : 4548934905 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

When would you write an abstract ?

आप एक सार (एब्सट्रैक्ट) कब लिखेंगे ?

Options :

Once you are aware of the results

1. ✘ एक बार जब आप परिणाम से अवगत हो जाते हैं

After the introduction and method sections are completed

2. ✘ परिचय एवं विधि खण्ड पूर्ण होने के बाद

Before the introduction and after the title

3. ✘ परिचय से पूर्व एवं शीर्षक के उपरान्त

After the main body of the report has been drafted

4. ✔ रिपोर्ट के मुख्य निकाय का प्रारूप तैयार होने के बाद

Question Number : 28 Question Id : 4548934906 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

As per Central Government, multipurpose socio-economic surveys are mainly conducted by :

केन्द्र सरकार के अनुसार बहुउद्देशीय सामाजिक-आर्थिक सर्वेक्षण मुख्य रूप से आयोजित किये जाते हैं :

Options :

Central Statistical Organisation

1. ✘ केन्द्रीय सांख्यिकीय संगठन

Indian Statistical Organisation

2. ✘ भारतीय सांख्यिकीय संगठन

National Informatics Centre

3. ✘ राष्ट्रीय सूचना विज्ञान केन्द्र

National Sample Survey Organisation

4. ✔ राष्ट्रीय प्रतिचयन सर्वेक्षण संगठन

Question Number : 29 Question Id : 4548934907 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is Bibliometry ?

ग्रन्थमिति (बिब्लियोमेट्री) क्या है ?

Options :

Function of Library Network

1. ✘ पुस्तकालय नेटवर्क का कार्य

Information Management Service

2. ✘ सूचना प्रबंधन सेवा

Information Management Tool

3. ✔ सूचना प्रबंधन उपकरण

Library Service

4. ✘ पुस्तकालय सेवा

Question Number : 30 Question Id : 4548934908 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Information sources are divided mainly into which categories ?

सूचना स्रोतों को मुख्य रूप से किन श्रेणियों में विभाजित किया जाता है ?

Options :

Primary and secondary

1. ✘ प्राथमिक और माध्यमिक

Reference and information sources

2. ✘ संदर्भ और सूचना स्रोत

Books and periodicals

3. ✘ पुस्तकें एवं आवधिक

Documentary and non-documentary

4. ✔ वृत्तचित्र और गैर वृत्तचित्र

Question Number : 31 Question Id : 4548934909 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following cannot be determined by Graphic method ?

निम्न में से किसका निर्धारण रेखाचित्र विधि द्वारा नहीं किया जा सकता है ?

Options :

Mean

1. ✓ माध्य

Median

2. ✗ मध्यिका

Mode

3. ✗ बहुलक

Quartile

4. ✗ चतुर्थक

Question Number : 32 Question Id : 4548934910 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is *not* a test of reliability ?

निम्नलिखित में से कौन-सा विश्वसनीयता की जाँच का एक प्रकार *नहीं* है ?

Options :

Test-retest

1. ✗ परीक्षण-पुनः परीक्षण

Split-half

2. ✗ आधा विभाजित किया हुआ

Contents

3. ✓ विषय-वस्तु

Internal consistency

4. ✗ आन्तरिक स्थिरता

Question Number : 33 Question Id : 4548934911 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Student's 't' distribution was discovered by :

स्टूडेन्ट 'टी' वितरण को खोजा गया था :

Options :

Karl Pearson

1. ✘ कार्ल पियर्सन द्वारा

Fisher

2. ✘ फिशर द्वारा

Laplace

3. ✘ लाप्लेस द्वारा

Gosset

4. ✔ गोस्से द्वारा

Question Number : 34 Question Id : 4548934912 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which technique of analysis is most appropriate for comparing the mean when there are more than two categories in independent variable ?

माध्य की तुलना करने के लिए कौन-सी विश्लेषण तकनीक अधिक उपयुक्त है जबकि स्वतन्त्र प्रसरण में दो से अधिक वर्ग हैं ?

Options :

't'-test

1. ✘ टी-परीक्षण

Chi-square test

2. ✔ काई-वर्ग परीक्षण

ANOVA

3. ✘ एनोवा

Z-test

4. ✘ जेड-परीक्षण

Question Number : 35 Question Id : 4548934913 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is an indication of the quality of a research journal ?

निम्नलिखित में से कौन-सा एक शोध जर्नल की गुणवत्ता का संकेत है ?

Options :

H-index

1. ✘ एच-सूची

G-index

2. ✘ जी-सूची

i 10-index

3. ✘ आई10-सूची

Impact factor

4. ✔ प्रभाव कारक

Question Number : 36 Question Id : 4548934914 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Cronbach alpha is a measure of :

क्रॉनबैक अल्फा एक माप है :

Options :

Validity

1. ✘ वैधता का

Reliability

2. ✔ विश्वसनीयता का

Sensitivity

3. ✘ अतिसंवेदनशीलता का

Normality

4. ✘ प्रसामान्यता का

Question Number : 37 Question Id : 4548934915 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The experimental study is based on

प्रायोगिक अध्ययन आधारित है।

Options :

The manipulation of variables

1. ✓ चरों के हेरफेर पर

Conceptual parameters

2. ✘ वैचारिक मापदंडों पर

Replication of research

3. ✘ अनुसंधान की प्रतिकृति पर

Survey of literature

4. ✘ साहित्य के सर्वेक्षण पर

Question Number : 38 Question Id : 4548934916 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Field-work based research is classified as :

क्षेत्र-आधारित अनुसंधान को इस प्रकार वर्गीकृत किया गया है :

Options :

Experimental

1. ✘ प्रयोगात्मक

Empirical

2. ✓ प्रयोगसिद्ध

Historical

3. ✘ ऐतिहासिक

Biographical

4. ✘ जीवनीक

Question Number : 39 Question Id : 4548934917 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A research which explores new facts through the study of the past is called :

एक शोध जो अतीत के अध्ययन के माध्यम से नए तथ्यों की खोज करता है उसे कहा जाता है :

Options :

1. Historical research
ऐतिहासिक शोध
2. Philosophical Research
दार्शनिक अनुसंधान
3. Mythological Research
पौराणिक शोध
4. Content Analysis
विषय-वस्तु विश्लेषण

Question Number : 40 Question Id : 4548934918 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Identify the *correct* sequence of research steps :

अनुसंधान चरणों के *सही* अनुक्रम को पहचानें :

Options :

1. Selection of topic, review of literature, data collection, interpretation of finding
विषय का चयन, साहित्य की समीक्षा, डेटा संग्रह, तथ्य की व्याख्या
2. Review of literature, selection of topic, data collection, interpretation of finding
साहित्य की समीक्षा, विषय का चयन, डेटा संग्रह, तथ्य की व्याख्या
3. Selection of topic, data collection, interpretation of finding, review of literature
विषय का चयन, डेटा संग्रह, तथ्य की व्याख्या, साहित्य की समीक्षा
4. Selection of topic, interpretation of finding, review of literature, data collection
विषय का चयन, तथ्य की व्याख्या, साहित्य की समीक्षा, डेटा संग्रह

Subject_& Area Concerned

Section Id :	45489353
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	60
Number of Questions to be attempted:	60
Section Marks:	180
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	45489363
Question Shuffling Allowed :	Yes

Question Number : 41 Question Id : 4548934919 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Morphactins are :

Options :

1. ✘ Auxins
2. ✘ Natural growth regulators
3. ✘ Cytokinins
4. ✔ Synthetic growth regulators

Question Number : 42 Question Id : 4548934920 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Presence of cytokinins delays the senescence, which is called as :

Options :

1. ✔ Richmond Lang effect
2. ✘ Apical dominance
3. ✘ Emerson effect
4. ✘ Katusky effect

Question Number : 43 Question Id : 4548934921 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The key intermediate compound linking glycolysis to the Kreb's cycle is :

Options :

1. ✘ Malic acid
2. ✘ ATP
3. ✔ Acetyl CoA
4. ✘ Succinic acid

Question Number : 44 Question Id : 4548934922 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An *E. coli* strain with lac^+ genotype was grown in a, LB medium (as control);
b, LB+ Lactose; c, LB+ Glucose and d, LB + Glucose+Lactose, and then β -
galactosidase-enzyme level was measured. Which culture will have highest level
of β -galactosidase activity ?

Options :

1. ✘ Culture in LB
2. ✘ Culture in LB+Glucose
3. ✘ Culture in LB+Glucose+Lactose
4. ✔ Culture in LB+Lactose

Question Number : 45 Question Id : 4548934923 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Spheroplasts are :

Options :

1. ✘ Protoplasts
2. ✔ Protoplasts with some cell wall fraction

3. ✘ Spherical bodies

4. ✘ Sphaerosomes

Question Number : 46 Question Id : 4548934924 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following cation participate in charge separation via change in oxidation-states to evolve oxygen at O₂ evolving complex in chloroplasts ?

Options :

1. ✘ Mg

2. ✘ Na

3. ✔ Mn

4. ✘ Ca

Question Number : 47 Question Id : 4548934925 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Parasitic alga is :

Options :

1. ✘ *Spirogyra*

2. ✘ *Vaucheria*

3. ✔ *Cephaleuros*

4. ✘ *Fucus*

Question Number : 48 Question Id : 4548934926 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following has genic sex determination ?

Options :

1. ✘ Drosophila

2. ✘ Humans

3. ✔ Maize

4. ✘ Mango

Question Number : 49 Question Id : 4548934927 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

'Linkage map' is also referred as :

Options :

1. ✘ Chromosomal map

2. ✘ Physical map

3. ✘ Restriction map

4. ✔ Genetic map

Question Number : 50 Question Id : 4548934928 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one is produced during cyclic photophosphorylation ?

Options :

1. ✘ ATP and NADPH₂

2. ✘ ATP and O₂

3. ✘ NADPH₂ only

4. ✔ ATP only

Question Number : 51 Question Id : 4548934929 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

DCPIP is used to demonstrate an event in plants :

Options :

1. ✘ Emerson effect
2. ✔ Hill reaction
3. ✘ Respiration
4. ✘ Apoptosis

Question Number : 52 Question Id : 4548934930 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Autoradiography technique is used to :

Options :

1. ✘ Find out the absorption maximum of chlorophyll pigments
2. ✘ Study of photorespiration in plants
3. ✘ Establish that the oxygen evolved during photosynthesis is by photolysis of water molecules
4. ✔ Trace the path of carbon in photosynthesis

Question Number : 53 Question Id : 4548934931 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The C_2 oxidative photosynthetic carbon cycle is related with :

Options :

1. ✘ Photosynthesis
2. ✘ Respiration
3. ✔ Photorespiration

4. ✘ Fermentation

Question Number : 54 Question Id : 4548934932 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Earlier cellular changes during leaf senescence occur in the :

Options :

1. ✘ Mitochondria
2. ✘ Nucleus
3. ✔ Chloroplast
4. ✘ Endocrine reticulum

Question Number : 55 Question Id : 4548934933 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Mushroom is rich in amino acid :

Options :

1. ✘ Threonine
2. ✘ Proline
3. ✔ Lysine
4. ✘ Valine

Question Number : 56 Question Id : 4548934934 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Blue green algae are close to which of advanced algal class ?

Options :

1. ✘ Chlorophyceae
2. ✘ Phaeophyceae

3. ✘ Xanthophyceae

4. ✔ Rhodophyceae

Question Number : 57 Question Id : 4548934935 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Climatic conditions of r-selected plants are :

Options :

1. ✘ Constant and Unpredictable

2. ✘ Constant and predictable

3. ✘ Variable and predictable

4. ✔ Variable and Unpredictable

Question Number : 58 Question Id : 4548934936 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The major factors determining the distribution of 'biomes' are :

Options :

1. ✘ Soil and Climate

2. ✔ Temperature and Precipitation

3. ✘ Water and Climate

4. ✘ Soil and Water

Question Number : 59 Question Id : 4548934937 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is the most stable ecosystem ?

Options :

1. ✘ Forest

2. ✓ Ocean

3. ✗ Desert

4. ✗ Mountain

Question Number : 60 Question Id : 4548934938 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Total energy fixed by an ecosystem is the :

Options :

1. ✗ Primary production

2. ✗ Secondary production

3. ✓ Gross production

4. ✗ Net production

Question Number : 61 Question Id : 4548934939 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ultraviolet radiations from sunlight lead to a reaction that produces :

Options :

1. ✗ Fluorides

2. ✗ Carbon monoxide

3. ✗ Sulphur dioxide

4. ✓ Ozone

Question Number : 62 Question Id : 4548934940 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In poriferans, different types of canal system are observed. Find out the correct combination of the type of canal system with its type of animal species.

Options :

1. ✘ *Spongilla* - Ascon type, *Leucosolenia* - Sycon type, *Scypha* - Leucon type
2. ✘ *Leucosolenia* - Ascon type, *Spongilla* - Sycon type, *Scypha* - Leucon type
3. ✔ *Leucosolenia* - Ascon type, *Scypha* - Sycon type, *Spongilla* - Leucon type
4. ✘ *Scypha* - Ascon type, *Leucosolenia* - Sycon type, *Spongilla* - Leucon type

Question Number : 63 Question Id : 4548934941 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is a correct combination ?

Options :

1. ✘ Placoid scales - *Labeo*, Cycloid scales - *Anabas*, Ctenoid scales - *Scoliodon*
2. ✘ Placoid scales - *Scoliodon*, Cycloid scales - *Anabas*, Ctenoid scales - *Labeo*
3. ✘ Placoid scales - *Anabas*, Cycloid scales - *Labeo*, Ctenoid scales - *Scoliodon*
4. ✔ Placoid scales - *Scoliodon*, Cycloid scales - *Labeo*, Ctenoid scales - *Anabas*

Question Number : 64 Question Id : 4548934942 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The number of M, MN and N blood group types in a human population of 200 is 80, 80 and 40, respectively. What will be the expected number of total homozygotes and heterozygotes in this population ?

Options :

1. ✘ 80 and 120
2. ✔ 104 and 96
3. ✘ 72 and 32
4. ✘ 120 and 80

Question Number : 65 Question Id : 4548934943 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Nebulin is associated with the organization of skeletal muscles, sarcomere. To which of following structure in sarcomere, the Nebulin is complexed ?

Options :

1. ✘ Z lines
2. ✘ Thick filaments
3. ✔ Thin filaments
4. ✘ M line

Question Number : 66 Question Id : 4548934944 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Habituation is a learning process to form memory of which of the following types ?

Options :

1. ✘ Episodic memory
2. ✔ Procedural memory
3. ✘ Sementic memory
4. ✘ Sensory memory

Question Number : 67 Question Id : 4548934945 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

DNA sequencing by the Sanger method takes advantage of which property of DNA synthesis to generate a sequencing ladder ?

Options :

1. ✔ Addition of nucleotides requires a free OH group on the 3' end of the DNA strand.
2. ✘ DNA has free 5' phoshoryl group.

3. ✘ DNA polymerase has proofreading capabilities.

4. ✘ Nucleotides are linked by phosphodiester bond.

Question Number : 68 Question Id : 4548934946 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Fatty liver is caused due to a buildup of which one of the following ?

Options :

1. ✘ Chylomicrons

2. ✘ LDL

3. ✘ VLDL

4. ✔ Triacylglycerol

Question Number : 69 Question Id : 4548934947 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Within framework of the Beer-Lambert law, the molecular extinction coefficient value will be :

Options :

1. ✘ increased with increase in the concentration of the biomolecules.

2. ✘ decreased with decrease in the concentration of the biomolecules.

3. ✔ unaffected in the conditions mentioned above.

4. ✘ increased with the increase in the transmittance value for biomolecules.

Question Number : 70 Question Id : 4548934948 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

During formation of urine, the glucose is mainly reabsorbed in the proximal convoluted tubule by :

Options :

- ✘ Potassium dependent secondary active transport
- ✔ Sodium dependent secondary active transport
- ✘ CFTR
- ✘ Pinocytosis

Question Number : 71 Question Id : 4548934949 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

At concentrations present in the diet, which of the following vitamins is absorbed primarily by diffusion ?

Options :

- ✘ Vitamin C
- ✘ Folate
- ✔ Vitamin D
- ✘ Vitamin B₁₂

Question Number : 72 Question Id : 4548934950 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

E. coli cells were grown in N¹⁵ medium for several generations and then shifted to normal medium for one generation. If the DNA isolated from the culture would be centrifuged on a CsCl equilibrium density gradient, the result will be :

Options :

- ✔ a single band of double helix DNA consisting of one strand with N¹⁴ and another with N¹⁵ label
- ✘ single band of double helix DNA consisting of N¹⁴ and N¹⁵ in both the strands
- ✘ two bands containing double helix DNA each containing both N¹⁴ and N¹⁵ label

- two bands containing single stranded DNA one with N14 and other with N15 label
4. ✘

Question Number : 73 Question Id : 4548934951 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In RNAi, genes are silenced using :

Options :

1. ✘ ss DNA
2. ✘ ds DNA
3. ✔ ds RNA
4. ✘ ss RNA

Question Number : 74 Question Id : 4548934952 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following bacteria is *not* a source of restriction endonuclease ?

Options :

1. ✘ *Haemophilus influenzae*
2. ✘ *Escherichia coli*
3. ✔ *Agrobacterium tumefaciens*
4. ✘ *Bacillus amyloli*

Question Number : 75 Question Id : 4548934953 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the given statement is correct in the context of observing DNA separated by agarose gel electrophoresis ?

Options :

1. ✘ DNA can be seen in visible light

2. ✘ DNA can be seen without staining in visible light
3. ✘ Ethidium bromide stained DNA can be seen in visible light
4. ✔ Ethidium bromide stained DNA can be seen under exposure to UV light

Question Number : 76 Question Id : 4548934954 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

At the pH below isoelectric point (pI), the net charge on the glycine will be :

Options :

1. ✔ Cationic
2. ✘ Anionic
3. ✘ No charge
4. ✘ Net charge zero

Question Number : 77 Question Id : 4548934955 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In scientific method, a predictive statement about observation that can be tested scientifically is called :

Options :

1. ✘ Truth
2. ✘ Evidence
3. ✘ Proof
4. ✔ Hypothesis

Question Number : 78 Question Id : 4548934956 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is *not* an assumption of the Hardy-Weinberg equilibrium ?

Options :

1. ✓ Mating occurs preferentially
2. ✗ The size of the population is large
3. ✗ There is no migration
4. ✗ There are no mutations

Question Number : 79 Question Id : 4548934957 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Coconut milk contains :

Options :

1. ✗ ABA
2. ✗ Auxin
3. ✓ Cytokinin
4. ✗ Gibberellin

Question Number : 80 Question Id : 4548934958 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

T- cells mature in the :

Options :

1. ✓ Thymus
2. ✗ Spleen
3. ✗ Lymph nodes
4. ✗ Bone marrow

Question Number : 81 Question Id : 4548934959 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In interferon signalling, ISGF3 is :

Options :

1. ✘ a homodimer of Stat1
2. ✘ a heterodimer of Stat1 and Stat2
3. ✘ a heterodimer of Stat1 and Stat3
4. ✔ a heterotrimer of Stat1, Stat2 and IRF-9

Question Number : 82 Question Id : 4548934960 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Increase in number of aquaporin channels in collecting ducts of kidney are regulated by :

Options :

1. ✘ Testosterone
2. ✘ Cortisol
3. ✔ Antidiuretic hormone
4. ✘ Prolactin

Question Number : 83 Question Id : 4548934961 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Recombinant DNA may be introduced into mammalian cells by :

Options :

1. ✘ Transformation
2. ✘ Conjugation
3. ✔ Transfection

4. ✘ Transcription

Question Number : 84 Question Id : 4548934962 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following statements is true ?

Options :

1. ✘ The thymus controls peripheral tolerance of T-cells.
2. ✘ Self-reactive T-cells are not found in healthy normal subjects.
3. ✔ Naive T-cells need more than one signal in order to become activated.
4. ✘ B-cell tolerance is more important than T-cell tolerance in the prevention of autoimmunity.

Question Number : 85 Question Id : 4548934963 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The microtubules attached to the kinetochore are polymers of :

Options :

1. ✔ tubulin molecules
2. ✘ actin molecules
3. ✘ myosin molecules
4. ✘ centrin molecules

Question Number : 86 Question Id : 4548934964 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Mutations are :

Options :

1. ✘ caused by genetic recombination.
2. ✔ heritable changes in genetic information.

3. ✘ caused by faulty transcription of the genetic code.

usually but not always, beneficial to the development of the individuals in

4. ✘ which they occur.

Question Number : 87 Question Id : 4548934965 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Trisomy of human chromosome 18 results in :

Options :

1. ✘ Turner syndrome

2. ✘ Down syndrome

3. ✘ Patau syndrome

4. ✔ Edward syndrome

Question Number : 88 Question Id : 4548934966 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Chromatids joined together by a centromere are called :

Options :

1. ✔ sister chromatids

2. ✘ homologs

3. ✘ alleles

4. ✘ bivalents

Question Number : 89 Question Id : 4548934967 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

All of the following events happen in prophase I of meiosis, except :

Options :

1. ✘ chromosome condensation

2. ✘ pairing of homologues

3. ✘ chiasma formation

4. ✔ segregation

Question Number : 90 Question Id : 4548934968 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Plasmids are :

Options :

1. ✔ Small circular DNA molecules, which are free in the cytosol.

2. ✘ Small linear DNA molecules, which are free in the cytosol.

3. ✘ Small circular DNA molecules, which remain incorporated in the genomic DNA.

4. ✘ Large linear RNA molecules, which are free in the cytosol.

Question Number : 91 Question Id : 4548934969 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The length of DNA wrapped around a nucleosome core is :

Options :

1. ✔ 146 base pairs

2. ✘ 200 base pairs

3. ✘ 203 base pairs

4. ✘ 20 to 100 base pairs

Question Number : 92 Question Id : 4548934970 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a karyotype, the chromosomes are ordered by :

Options :

1. ✘ size of the chromosomes

2. ✓ size of the chromosomes and position of the centromere
3. ✗ position of the centromere and long arm to short arm ratio
4. ✗ size of the chromosomes and long arm to short arm ratio

Question Number : 93 Question Id : 4548934971 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Aneuploidy is defined as :

Options :

1. ✓ any deviation from the complete chromosome complement
2. ✗ only the loss of one set of chromosomes complement
3. ✗ only gain of a full set chromosome complement
4. ✗ only loss or gain of one chromosome

Question Number : 94 Question Id : 4548934972 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Operon occurs in :

Options :

1. ✗ only prokaryotes
2. ✓ primarily in prokaryotes and in some eukaryotes including nematodes
3. ✗ all prokaryotes and all eukaryotes
4. ✗ primarily in eukaryotes and also in many prokaryotes

Question Number : 95 Question Id : 4548934973 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Allelic heterogeneity is :

Options :

1. ✓ the existence of many different mutations, but all in the same gene, in unrelated people with same phenotype.
2. ✗ the existence of many different mutations, but all in the different genes, in unrelated people with same phenotype.
3. ✗ the existence of a single mutation, in different unrelated people with different phenotype.
4. ✗ combined effect of many different mutations, but all in different genes, for a phenotype in an individual.

Question Number : 96 Question Id : 4548934974 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Duchenne muscular dystrophy is a :

Options :

1. ✗ Y-linked disorder
2. ✓ X-linked disorder
3. ✗ Autosomal disorder
4. ✗ Mitochondrial disorder

Question Number : 97 Question Id : 4548934975 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Mitochondrial genome contains 37 genes of which ?

Options :

1. ✗ 26 genes are encoded by H strand and 11 genes are encoded by L strand.
2. ✗ 27 genes are encoded by H strand and 10 genes are encoded by L strand.
3. ✓ 28 genes are encoded by H strand and 9 genes are encoded by L strand.
4. ✗ 29 genes are encoded by H strand and 8 genes are encoded by L strand.

Question Number : 98 Question Id : 4548934976 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Nonsense-mediated mRNA decay is :

Options :

1. ✘ a cellular mechanism that degrades mRNA molecules that contain a premature termination codon (>50 nt downstream of the last splice junction).
2. ✔ a cellular mechanism that degrades mRNA molecules that contain a premature termination codon (>50 nt upstream of the last splice junction).
3. ✘ a cellular mechanism that degrades mRNA molecules that contain a premature termination codon (<50 nt downstream of the last splice junction).
4. ✘ a cellular mechanism that degrades mRNA molecules that contain a premature termination codon (>50 nt upstream of the first splice junction).

Question Number : 99 Question Id : 4548934977 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In plasma membrane cholesterol :

Options :

1. ✘ has no significant role.
2. ✘ reduces its permeability-barrier properties.
3. ✘ makes it more deformable.
4. ✔ prevents hydrocarbon chains to come together.

Question Number : 100 Question Id : 4548934978 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is true for SCID mice ?

Options :

1. ✘ They carry recessive mutation on chromosome 11 responsible for deficient activity of a transcription factor.

2. ✘ They carry dominant mutation on chromosome 11 responsible for deficient activity of an enzyme involved in DNA repair.
3. ✔ They carry recessive mutation on chromosome 16 responsible for deficient activity of an enzyme involved in DNA repair.
4. ✘ They carry recessive mutation on chromosome 16 responsible for deficient activity of an protein involved in cell cycle regulation.