

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:	887
Subject Name:	887
Creation Date:	2019-10-22 13:18:20
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Magnifying Glass Required?:	No
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RET_Biochemistry

Group Number :	1
Group Id :	76221135
Group Maximum Duration :	0
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Revisit allowed for edit? :	No
Break time:	0
Group Marks:	300

Research_Methodology

Section Id :	76221169
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:	76221169

Question Number : 1 Question Id : 7622113401 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

Probability sampling is otherwise called :

सम्भाव्यता प्रतिदर्श को जाना जाता है :

Options :

Multiple choice

1. ✘ बहुविकल्पीय चयन

Uni-variate Analysis

2. ✘ यूनी-वैरिएट विश्लेषण

Random Sampling

3. ✔ यादृच्छिक प्रतिदर्श

Bi-variate Analysis

4. ✘ बाई-वैरिएट विश्लेषण

Question Number : 2 Question Id : 7622113402 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 Report is a formal statement of

एक शोध रिपोर्ट का एक औपचारिक विवरण है।

Options :

Research Process

1. ✔ अनुसंधान प्रक्रिया

Research Problem

2. ✘ अनुसंधान समस्या

Data collection

3. ✘ आंकड़ा संग्रहण

Data Editing

4. ✘ डाटा एडिटिंग

Question Number : 3 Question Id : 7622113403 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* covered under Intellectual Property Rights ?

निम्नलिखित में से कौन बौद्धिक संपदा अधिकारों के अंतर्गत *नहीं* आता है ?

Options :

Copyrights

1. ✘ कॉपीराइट

Patents

2. ✘ पेटेंट

Trademarks

3. ✘ ट्रेडमार्क

Thesaurus

4. ✔ थिसॉरस

Question Number : 4 Question Id : 7622113404 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 bar chart or graph which shows the frequency of occurrence of each value of the variable which is being analysed is termed as :

स्तंभ चार्ट या ग्राफ जो चर के प्रत्येक मान को प्राप्त करने की आवृत्ति को दिखाता है जिसका विश्लेषण किया जा रहा है, को कहा जाता है :

Options :

Bar chart

1. ✘ स्तंभ चार्ट के रूप में

Histogram

2. ✔ कालिकचित्र के रूप में

Candle stick

3. ✘ कैंडल स्टिक के रूप में

Tabulation

4. ✖ सारणीयन के रूप में

Question Number : 5 Question Id : 7622113405 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 depth of research can be judged by :

शोध की गहराई का अंदाजा इससे लगाया जा सकता है :

Options :

Title of the research work

1. ✖ शोध कार्य का शीर्षक

Objective of research

2. ✔ शोध का उद्देश्य

Total expenditure of research

3. ✖ शोध का कुल खर्च

Duration of research

4. ✖ शोध की अवधि

Question Number : 6 Question Id : 7622113406 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 mean of a set scores is 50 and standard deviation is 10. If the score of each student is doubled the new median will be :

समुच्चय अंकों का माध्य 50 है तथा मानक विचलन 10 है। यदि प्रत्येक छात्र के अंकों को दोगुना कर दिया जाय, नई माध्यिका :

Options :

Remain unchanged

1. ✖ अपरिवर्तित रहेगी

Increase by double

2. ✔ दोगुना वृद्धि होगी

Decrease by half

3. ✖ आधा कम होगी

Become equal to the mean

4. ✘ माध्य के बराबर होगी

Question Number : 7 Question Id : 7622113407 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 type of research question ?

निम्न में से कौन अनुसंधान प्रश्न का प्रकार *नहीं* है ?

Options :

Predicting an outcome

1. ✘ परिणाम की भविष्यवाणी

Evaluating a phenomenon

2. ✘ घटना का मूल्यांकन

Developing good practice

3. ✘ अच्छी प्रक्रिया को बढ़ाना

A hypothesis

4. ✔ एक परिकल्पना

Question Number : 8 Question Id : 7622113408 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 types of non-probability sampling techniques except :

निम्न में से सभी गैर-प्रायिकता प्रतिदर्श तकनीक के प्रकार हैं सिवाय :

Options :

Purposive sampling

1. ✘ सोद्देश्य प्रतिदर्श के

Snowball sampling

2. ✘ स्नोबॉल प्रतिदर्श के

Convenience sampling

3. ✘ सुविधा प्रतिदर्श के

Random sampling

4. ✓ यादृच्छिक प्रतिदर्श के

Question Number : 9 Question Id : 7622113409 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

To test null hypothesis, a researcher does *not* use :

नगण्य परिकल्पना का परीक्षण करने हेतु अनुसंधानकर्ता निम्न में से किसका प्रयोग *नहीं* करते हैं ?

Options :

Chi-square test

1. ✗ काई-स्क्वेयर परीक्षण

t-test

2. ✗ टी-परीक्षण

ANOVA

3. ✗ एनोवा

Factorial analysis

4. ✓ क्रमगुणित विश्लेषण

Question Number : 10 Question Id : 7622113410 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

P-value stands for :

पी० मूल्य का अभिप्राय है :

Options :

Probability value

1. ✓ प्रायिकता मूल्य

Preference value

2. ✗ वरीयता मूल्य

Pre-determined value

3. ✗ पूर्व-निश्चित मूल्य

Prescribed value

4. ✘ निर्धारित मूल्य

Question Number : 11 Question Id : 7622113411 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 the process of conducting research "Formulation of Hypothesis" is followed by :

अनुसंधान करने की प्रक्रिया में "परिकल्पना के सूत्रीकरण" के बाद किया जाता है :

Options :

Statement of Objectives

1. ✘ उद्देश्यों का विवरण

Analysis of Data

2. ✘ आँकड़े का विश्लेषण

Selection of Research Tools

3. ✔ अनुसंधान साधनों का चयन

Collection of Data

4. ✘ आँकड़े का संग्रह

Question Number : 12 Question Id : 7622113412 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

Longitudinal studies of cohort groups

दस्ता समूहों का अनुदैर्घ्य अध्ययन है :

Options :

Study the same people over time

1. ✘ कुछ समय पर एक ही लोगों का अध्ययन

Use panel members as participants

2. ✘ भागीदार के रूप में पेनल सदस्यों का उपयोग

Study attitudes at a single point in time

3. ✘ एक समय पर दृष्टिकोण का अध्ययन

Use different participants for each sequenced measurement

4. ✓ प्रत्येक अनुक्रमित मापन हेतु विभिन्न भागीदारों का उपयोग

Question Number : 13 Question Id : 7622113413 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 deductive theory is one that :

निगमनिक सिद्धांत है :

Options :

Allows theory to emerge out of the data

1. ✘ जो सिद्धांत को आँकड़े से व्युत्पन्न होने देता है

Involves testing an explicitly defined hypothesis

2. ✓ जिसमें स्पष्ट तथा परिभाषित परिकल्पना का परीक्षण शामिल है

Allows for findings to feed back into the stock of knowledge

3. ✘ जिसका उद्देश्य है ज्ञान के संचय में प्रतिपुष्टि हेतु निष्कर्ष देना

Uses qualitative methods whenever possible

4. ✘ जो जब भी संभव हो गुणात्मक पद्धति का प्रयोग करता है

Question Number : 14 Question Id : 7622113414 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

Meta data is the data that :

मेटा डाटा वह डाटा है जो :

Options :

Distribute other data

1. ✘ अन्य डाटा को बाँटता है

Collect other data

2. ✘ अन्य डाटा को एकत्रित करता है

Describes the other data

3. ✓ डाटा को बताता है

Destroy the data

4. ✘ डाटा को नष्ट करता है

Question Number : 15 Question Id : 7622113415 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

Randomization is done to :

यादृच्छिकीकरण की जाती है :

Options :

Increase bias

1. ✘ अभिनति को बढ़ाने के लिए

Reduce bias

2. ✔ अभिनति को कम करने के लिए

For making hypothesis

3. ✘ परिकल्पना करने के लिए

To increase drug efficacy

4. ✘ औषधि क्षमता को बढ़ाने के लिए

Question Number : 16 Question Id : 7622113416 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

Data is represented in form of notes, recordings and video tapes in :

आँकड़ा को नोट, रेकार्डिंग एवं वीडियोटेप के रूप में निरूपित किया जाता है :

Options :

Qualitative Research

1. ✔ गुणात्मक अनुसंधान में

Quantitative Research

2. ✘ परिमाणात्मक अनुसंधान में

Experimental Research

3. ✘ प्रयोगात्मक अनुसंधान में

Descriptive Research

4. ✘ वर्णनात्मक अनुसंधान में

Question Number : 17 Question Id : 7622113417 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

Grounded theory is often used in formulation of :
ग्राउंडेड थ्योरी का प्रयोग प्रतिपादन में बहुधा किया जाता है :

Options :

Policies and Programme evaluation research

1. ✓ नीतियों एवं कार्यक्रम मूल्यांकन अनुसंधान के

Opportunity for exploring the facts

2. ✗ तथ्यों का पता लगाने हेतु अवसर के

Categorizing data

3. ✗ आँकड़ा को श्रेणीबद्ध करने के

Understanding the culture

4. ✗ संस्कृति को समझने के

Question Number : 18 Question Id : 7622113418 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

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

कथन **क** एवं **ख** को पढ़िए तथा सही विकल्प चुनिए :

Statement A : Variables can be manipulated, controlled or observed by the experimenter.

कथन **क** : चरों को प्रयोगकर्ता द्वारा काम में लाया, नियंत्रित या अवलोकित किया जा सकता है।

Statement B : Variables are not related to theoretical concepts.

कथन **ख** : चर सैद्धांतिक अवधारणाओं से संबंधित नहीं हैं।

Options :

Both the statements are true

1. ✗ दोनों कथन सत्य हैं

Statement **A** is true but **B** is false

2. ✓ कथन **क** सत्य है किन्तु कथन **ख** असत्य है

Both the statements are false

3. ✗ दोनों कथन असत्य हैं

Statement **A** is false but **B** is true

4. ✗ कथन **क** असत्य है किन्तु कथन **ख** सत्य है

Question Number : 19 Question Id : 7622113419 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 category of legal research ?

निम्नलिखित में कौन-सा विधिक शोध की श्रेणी में नहीं आता है ?

Options :

1. ✓ a parasitic discipline of law
परजीवी विषय के रूप में
2. ✘ a practical discipline of law
व्यावहारिक विषय के रूप में
3. ✘ an aspect of the humanities
मानविकी के एक पहलू के रूप में
4. ✘ an aspect of social sciences
सामाजिक विज्ञान के पहलू के रूप में

Question Number : 20 Question Id : 7622113420 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 when it is true is called :

सत्य होने की स्थिति में नगन्य परिकल्पना की अस्वीकृति क्या कहलाती है ?

Options :

1. ✘ Type II error
टाइप II त्रुटि
2. ✓ Type I error
टाइप I त्रुटि
3. ✘ Sampling error
प्रतिदर्श त्रुटि
4. ✘ Standard error
मानक त्रुटि

Question Number : 21 Question Id : 7622113421 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 research study one of the variables selected was (students') parents' occupation such as business, farming, service etc. What level of measurement is this ?

“अनुसंधान अध्ययन में चयनित एक चर माता-पिता का व्यवसाय जैसे व्यापार, खेती, सेवा इत्यादि। यह किस प्रकार का मापन है ?”

Options :

- 1. ✓ Nominal
सांकेतिक
- 2. ✗ Ordinal
क्रमसूचक
- 3. ✗ Interval
अन्तराल
- 4. ✗ Ratio
अनुपात

Question Number : 22 Question Id : 7622113422 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 standard error ?

मानक त्रुटि क्या है ?

Options :

- 1. ✓ Standard deviation of the sampling distribution of a statistic
सांख्यिकीय के प्रतिदर्श बंटन का मानक विचलन
- 2. ✗ Modal error value of the standard range of a statistic
सांख्यिकीय के मानक रेंज का मॉडल त्रुटि मान
- 3. ✗ Error in the calculation of standard deviation of a statistic
सांख्यिकीय के मानक विचलन के गणना में त्रुटि
- 4. ✗ Standardized statistic to minimize error
त्रुटि को कम करने के लिए मानकीकृत सांख्यिकीय

Question Number : 23 Question Id : 7622113423 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 helpful in determining sample size ?

प्रतिदर्श आकार का निर्धारण करने में निम्न में से कौन सहायक है ?

Options :

1. ✘ Russell 2000 index
रसेल 2000 सूचकांक
2. ✔ Cochran's formula
कोकरन का नियम
3. ✘ Tussad's formula
तुसाद का नियम
4. ✘ Spearman's formula
स्पीयरमैन का नियम

Question Number : 24 Question Id : 7622113424 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 true about the case study method ?

‘केस अध्ययन’ के बारे में निम्नलिखित में से क्या सत्य नहीं है ?

Options :

1. ✘ It is an expensive method of research
यह एक महंगी पद्धति है
2. ✘ There are many chances of making errors
इसमें त्रुटि होने की बहुत संभावना होती है
3. ✘ It is mainly qualitative in nature
यह मुख्यतया गुणात्मक होता है
4. ✔ It is quantitative in nature
यह मात्रात्मक होता है

Question Number : 25 Question Id : 7622113425 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

Read statement A and B and Choose the correct option :

कथन क एवं ख को पढ़िए तथा सही विकल्प का चुनाव कीजिए :

Statement A : The Latin square design has an advantage over randomized block design because it is possible to control the effects of two secondary variables.

कथन क : लैटिन स्क्वायर डिजाइन यादृच्छिक ब्लॉक डिजाइन से अधिक लाभदायक है क्योंकि यह दो गौण चरों के प्रभाव को नियंत्रित करने में संभव है।

Statement B : A $2 \times 2 \times 2$ factorial design has six independent variables.

कथन ख : एक $2 \times 2 \times 2$ क्रमगुणित डिजाइन में छह स्वतंत्र चर होते हैं।

Options :

Both A and B are true

1. ✘ क एवं ख दोनों सत्य हैं

A is true and B is false

2. ✔ क सत्य है तथा ख असत्य है

Both A and B are false

3. ✘ क एवं ख दोनों असत्य हैं

A is false but B is true

4. ✘ क असत्य है लेकिन ख सत्य है

Question Number : 26 Question Id : 7622113426 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 researcher is investigating teacher's attitude towards year-round schooling. She is particularly interested in describing the attitude of teachers from small, medium, and large schools. Which sampling procedure should be used by her to ensure her sample is representative of these types of schools ?

एक अनुसंधानकर्ता वर्ष भर स्कूलिंग के प्रति अध्यापक के मनोवृत्ति का अन्वीक्षण कर रही है। वह छोटे, मध्यम तथा बड़े स्कूलों से शिक्षकों के मनोवृत्ति की व्याख्या में विशेष रूप से दिलचस्पी ले रही है। उसे किस प्रतिदर्श विधि का प्रयोग करना चाहिए जिससे उसके प्रतिदर्श इन स्कूलों का सही प्रतिनिधित्व कर सकें ?

Options :

Cluster

1. ✘ समूह

Quota

2. ✘ कोटा

Systematic

3. ✘ योजनाबद्ध

Stratified

4. ✔ स्तरित

Question Number : 27 Question Id : 7622113427 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 type of research focuses on amending the prevailing situations ?

निम्न में से किस प्रकार का अनुसंधान अभिभावी स्थितियों को सुधारने पर संकेन्द्रित करता है ?

Options :

Action research

1. ✔ क्रियाविधि अनुसंधान

Experimental research

2. ✘ प्रयोगात्मक अनुसंधान

Fundamental research

3. ✘ मूलभूत अनुसंधान

Conclusive research

4. ✘ निर्णयात्मक अनुसंधान

Question Number : 28 Question Id : 7622113428 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

If there are eight categories or classes in a goodness of fit test, what will be the degree of freedom ?

यदि गुडनेस ऑफ फिट टेस्ट में आठ श्रेणियाँ या वर्ग हैं, तो स्वातंत्र्य कोटि क्या होगी ?

Options :

1. ✘ 8

2. ✔ 7

3. ✘ 6

Cannot tell on the basis of the information given

4. ✘ दिये गये जानकारी के आधार पर बताया नहीं जा सकता है

Question Number : 29 Question Id : 7622113429 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

Qualitative research helps in collecting data under more situations.

गुणात्मक अनुसंधान अधिक स्थितियों में आँकड़ा एकत्रित करने में सहायता करता है।

Options :

Normal

1. ✘ सामान्य

Natural

2. ✔ प्राकृतिक

Experimental

3. ✘ प्रयोगात्मक

Artificial

4. ✘ कृत्रिम

Question Number : 30 Question Id : 7622113430 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

Read statement A and B and choose the correct option :

कथन क एवं ख को पढ़िए तथा सही विकल्प चुनिए :

Statement A : A case study can be used only in clinical psychology.

कथन क : वृत्त अध्ययन (केस स्टडी) का प्रयोग केवल क्लिनिकल मनोविज्ञान में किया जा सकता है।

Statement B : The approach of case study is based on the artificial atmosphere.

कथन ख : वृत्त अध्ययन (केस स्टडी) का दृष्टिकोण कृत्रिम परिवेश पर आधारित है।

Options :

Both A and B are true

1. ✘ क एवं ख दोनों सत्य हैं

Statement A is true and but B is false

2. ✘ कथन क सत्य है लेकिन ख असत्य है

Both A and B are false

3. ✓ क एवं ख दोनों असत्य हैं

Statement A is false but B is true

4. ✘ कथन क असत्य है लेकिन ख सत्य है

Question Number : 31 Question Id : 7622113431 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 type of research focus on what will be ?

किस प्रकार का अनुसंधान क्या होगा पर फोकस करता है ?

Options :

Experimental

1. ✓ प्रयोगात्मक

Case study

2. ✘ वृत्त अध्ययन (केस स्टडी)

Survey

3. ✘ सर्वेक्षण

Ex-post facto

4. ✘ पूर्व प्रभावी

Question Number : 32 Question Id : 7622113432 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 should be up to date, complete and affordable for proper sampling ?

निम्न में से कौन उचित प्रतिदर्श हेतु अद्यतन, पूर्ण तथा संभव होना चाहिए ?

Options :

Sampling technique

1. ✘ प्रतिदर्श तकनीक

Sample frame

2. ✓ प्रतिदर्श फ्रेम

Respondents

3. ✘ प्रतिक्रिया दिखाने वाले

Tools for data collection

4. ✘ आँकड़ा संग्रह हेतु साधन

Question Number : 33 Question Id : 7622113433 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 a research design ?

अनुसंधान अभिकल्प क्या है ?

Options :

A way of conducting research that is not grounded in theory

1. ✘ अनुसंधान करने का तरीका जो सिद्धांत में आधारित नहीं है

The choice between using qualitative or quantitative methods

2. ✘ गुणात्मक एवं परिमाणात्मक पद्धतियों का प्रयोग करने के बीच विकल्प

The style in which you present your research findings, e. g. a graph

3. ✘ शैली जिसमें आप अपने अनुसंधान निष्कर्ष अर्थात् ग्राफ को प्रस्तुत करते हैं

A framework for every stage of the collection and analysis of data

4. ✔ आँकड़ा के विश्लेषण तथा संग्रह के प्रत्येक प्रक्रम हेतु ढाँचा

Question Number : 34 Question Id : 7622113434 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

If a study is "reliable", this means that :

यदि अध्ययन विश्वसनीय है, इसका मतलब है कि :

Options :

It was conducted by a reputed researcher who can be trusted

1. ✘ यह प्रतिष्ठित अनुसंधानकर्ता द्वारा की जाती है जिस पर विश्वास किया जा सकता है

The measures devised for concepts are stable on different occasions

2. ✔ अवधारणाओं हेतु कल्पित उपाय विभिन्न अवसरों पर स्थिर होता है

The findings can be generalized to other social settings

3. ✘ निष्कर्ष को अन्य सामाजिक वातावरण के लिए सामान्यीकृत किया जा सकता है

The methods are stated clearly enough for the research to be replicated

4. ✘ अनुसंधान की प्रतिकृति किये जाने हेतु पद्धतियों को स्पष्ट रूप से पर्याप्त बताया गया है

Question Number : 35 Question Id : 7622113435 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

Ethical norms in research does *not* involve guidelines for which of the following ?

अनुसंधान में नीतिपरक मानक में निम्न में किसके लिए दिशा-निर्देश शामिल *नहीं* है ?

Options :

Thesis Format

1. ✔ शोध प्रबन्ध प्रारूप

Copyright

2. ✘ कॉपीराइट

Patenting policy

3. ✘ पेटेंट नीति

Data sharing policy

4. ✘ डाटा शेयरिंग नीति

Question Number : 36 Question Id : 7622113436 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

..... is *not* a source of Hypothesis.

..... परिकल्पना का एक स्रोत *नहीं* है।

Options :

Intuition

1. ✘ सहज बोध

Knowledge

2. ✘ ज्ञान

Energy

3. ✓ ऊर्जा

Theory

4. ✗ सिद्धान्त

Question Number : 37 Question Id : 7622113437 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 variables cannot be expressed in quantitative terms ?

निम्नलिखित में से किस चर को मात्रात्मक शब्दों में व्यक्त नहीं किया जा सकता है ?

Options :

Socio-economic status

1. ✗ सामाजिक आर्थिक स्थिति

Marital status

2. ✗ वैवाहिक स्थिति

Numerical aptitude

3. ✓ संख्यात्मक अभिरुचि

Professional aptitude

4. ✗ पेशेवर अभिरुचि

Question Number : 38 Question Id : 7622113438 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 citation style ?

निम्नलिखित में से कौन एक उद्धरण विधि *नहीं* है ?

Options :

A.P.A.

1. ✗ ए० पी० ए०

M.L.A.

2. ✗ एम० एल० ए०

Chicago

3. ✘ शिकागो

Ohio

4. ✔ ओहियो

Question Number : 39 Question Id : 7622113439 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 defining characteristics of non-doctrinal research ?

निम्नलिखित में से क्या गैर-सैद्धान्तिक शोध का परिभाषिक लक्षण नहीं है ?

Options :

It is organized around legal principles and appellate court decisions.

1. ✔ यह विधिक सिद्धान्तों और अपीलिय न्यायालय के निर्णयों के चारों तरफ व्यवस्थित होता है।

It puts lesser emphasis upon doctrines.

2. ✘ यह सिद्धान्तों पर कम बल देता है।

It seeks to answer broader and numerous questions.

3. ✘ यह वृहद् एवम् अनेक प्रश्नों के उत्तर खोजने की कोशिश करता है।

It may involve the use of research tools and perspectives not peculiar to law.

4. ✘ इसमें ऐसा शोध औजार और दृष्टिकोण प्रयुक्त हो सकता है जो केवल विधि तक सीमित नहीं होते हैं।

Question Number : 40 Question Id : 7622113440 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* true about positivism ?

निम्नलिखित में से कौन यथार्थवाद (पॉजिटिविज्म) के संबंध में सही *नहीं* है ?

Options :

It is associated with Auguste Comte

1. ✘ यह अगस्ट कॉम्ट के साथ जुड़ा है

It denies metaphysical speculation

2. ✘ यह तत्वमीमांसिक अटकलबाजी की अवहेलना करता है

It emphasises on objectivity

3. ✘ यह वस्तुनिष्ठता पर जोर देता है

It is a method used in qualitative research

4. ✔ यह एक विधि है जिसका प्रयोग गुणात्मक शोध में होता है

Subject_&_Area Concerned

Section Id :	76221170
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:	76221170
Question Shuffling Allowed :	Yes

Question Number : 41 Question Id : 7622113441 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

Variations during mutations of meiotic recombination are :

Options :

1. ✔ random and directionless

2. ✘ random and directional

3. ✘ random and small

4. ✘ random, small and directional

Question Number : 42 Question Id : 7622113442 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 membrane attack complex in the complement pathway consists of :

Options :

1. ✘ C3b3b, Bb

2. ✓ C5b,6,7,8,9

3. ✗ Colicins

4. ✗ Properdin

Question Number : 43 Question Id : 7622113443 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 genera synthesizes Nod factors in order to activate a plant to allow development of an infection thread ?

Options :

1. ✗ Agrobacterium

2. ✗ Escherichia

3. ✗ Pseudomonas

4. ✓ Rhizobium

Question Number : 44 Question Id : 7622113444 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

If the concentration of glucose ($C_6H_{12}O_6$) in blood is 0.9 g L^{-1} , what will be the molarity of glucose in blood ?

Options :

1. ✗ 5 M

2. ✗ 50 M

3. ✓ 0.005 M

4. ✗ 0.5 M

Question Number : 45 Question Id : 7622113445 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

Bacteriophage λ :

Options :

1. ✘ Is an obligate bacterial parasite
2. ✘ Can enter a lytic pathway
3. ✘ Forms prophage in integrated state
4. ✔ All of the above

Question Number : 46 Question Id : 7622113446 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

You are given to make a buffer of pH 7.0 which of the following is most suitable ?

Options :

1. ✔ Phosphate
2. ✘ Acetate
3. ✘ HCl
4. ✘ NaOH

Question Number : 47 Question Id : 7622113447 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

K_m of an enzyme A and enzyme B are x and $2x$ respectively, concentration of substrate required to achieve $\frac{1}{2} V_{max}$ of the enzyme B will be :

Options :

- twice the concentration of substrate of enzyme A required to achieve
1. ✔ $\frac{1}{2} V_{max}$
- Half the concentration of substrate of enzyme A required to achieve
2. ✘ $\frac{1}{2} V_{max}$
- Equal to the concentration of substrate of enzyme A required to achieve
3. ✘ $\frac{1}{2} V_{max}$
4. ✘ There is no correlation between K_m and V_{max}

Question Number : 48 Question Id : 7622113448 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 non-reducing SDS PAGE a protein showed molecular weight of 25kDa. While same protein in gel filtration chromatography showed molecular weight of 100kDa. What is your interpretation ?

Options :

1. Protein is made up of non-covalently attached 4 subunits and each subunit is of 25kDa
2. Protein is made up of 4 subunits attached by disulphide bonds and each subunit has molecular mass of 25kDa
3. Protein has mass of 100kDa and no subunits are present
4. Protein has mass 25kDa

Question Number : 49 Question Id : 7622113449 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

Enzyme Linked Immunosorbant Assay is a technique which is used to :

Options :

1. Quantitate hormones
2. Localize protein in a cell
3. Count cells
4. To purify a protein

Question Number : 50 Question Id : 7622113450 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 an agarose gel electrophoresis, choose the right order of sequence according to fast mobility :

Options :

1. Methylene blue, 3kb linear DNA, 3kb circular DNA

2. ✘ 3kb linear DNA, Methylene blue, 3kb circular DNA

3. ✔ Methylene blue, 3kb circular DNA, 3kb linear DNA

4. ✘ 3kb circular DNA, 3kb linear DNA, Methylene blue

Question Number : 51 Question Id : 7622113451 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 the following is RNase inhibitor ?

Options :

1. ✔ Diethylpyrocarbonate

2. ✘ Phenylmethyl sulfonyl fluoride

3. ✘ Vanadate

4. ✘ Streptomycin

Question Number : 52 Question Id : 7622113452 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

DAPI is a stain which normally used in :

Options :

1. ✔ Fluorescence microscopy to stain nucleus

2. ✘ Fluorescence microscopy to stain cytosol

3. ✘ Simple microscopy to stain cytosol

4. ✘ Electron microscopy

Question Number : 53 Question Id : 7622113453 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 related to monoclonal antibody ?

Options :

1. ✘ HeLa Cells

2. ✘ Red blood cells
3. ✘ Platelets
4. ✔ Hybridoma cells

Question Number : 54 Question Id : 7622113454 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

Marker enzyme of mitochondria is :

Options :

1. ✔ succinate dehydrogenase
2. ✘ hexokinase
3. ✘ glucose-6-phosphatase
4. ✘ Fumarate dehydrogenase

Question Number : 55 Question Id : 7622113455 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 thermocycler correct sequence of processes are repeated in polymerase chain reaction is :

Options :

1. ✔ Denaturation, annealing, extension
2. ✘ Annealing, denaturation, extension
3. ✘ Extension, denaturation, annealing
4. ✘ Denaturation, extension, annealing

Question Number : 56 Question Id : 7622113456 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

Name the way to visualize backbone dihedral angles ψ against ϕ of amino acid residues in protein structure :

Options :

1. ✓ Ramachandran plot
2. ✗ Hydropathy plot
3. ✗ Zimmermann-Simha plot
4. ✗ Lineweaver-Burke plot

Question Number : 57 Question Id : 7622113457 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 the following are storage polysaccharides except :

Options :

1. ✗ Starch
2. ✓ Cellulose
3. ✗ Glycogen
4. ✗ Dextran

Question Number : 58 Question Id : 7622113458 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

Of the following, the best evidence that the interaction between a protein and nucleic acid in a particular complex is hydrophobic if the complex is dissociated by :

Options :

1. ✗ High salt
2. ✗ Treatment with a nuclease
3. ✗ Treatment with a protease
4. ✓ Organic solvents

Question Number : 59 Question Id : 7622113459 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

Circular Dichroism (CD) measures the difference between :

Options :

1. ✘ The absorption of left and right handed plane polarized light
2. ✘ The absorption of left and right handed polarized light
3. ✘ The absorption of left and right handed light
4. ✔ The absorption of left and right handed circularly polarized light

Question Number : 60 Question Id : 7622113460 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 model organism to study cell lineage is :

Options :

1. ✘ *Caenorhabditis elegans*
2. ✘ Yeast
3. ✘ *Drosophila*
4. ✔ *Xenopus*

Question Number : 61 Question Id : 7622113461 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 modifications is common to both protein and DNA ?

Options :

1. ✘ Sumoylation
2. ✘ Nitrosylation
3. ✔ Methylation
4. ✘ Ubiquitination

Question Number : 62 Question Id : 7622113462 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 functions is NOT served by the plasma proteins ?

Options :

1. ✘ Blood clotting
2. ✔ O₂ transport
3. ✘ Hormone binding and transport
4. ✘ Buffering capacity of blood

Question Number : 63 Question Id : 7622113463 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

Transmitters are inactivated at synapse by all of the following mechanisms EXCEPT :

Options :

1. ✘ Diffusion out of the synaptic gap
2. ✘ Re-uptake by the presynaptic terminal
3. ✔ Uptake by astrocytes that ensheath the synapse
4. ✘ Uptake by oligodendrocytes

Question Number : 64 Question Id : 7622113464 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 structure is involved in processing of emotional content of the incoming stimulus ?

Options :

1. ✔ Amygdala
2. ✘ Hippocampus
3. ✘ Cerebellum

4. ✘ Medulla Oblangata

Question Number : 65 Question Id : 7622113465 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 chromosome aberration leads to change in the order of genes in a genetic map does not alter its linkage group. This is due to :

Options :

1. ✘ Translocation
2. ✘ Recombination
3. ✘ Transposition
4. ✔ Inversion

Question Number : 66 Question Id : 7622113466 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 effect of nonsense mutation could be nullified by reversion as well as suppression. Which of the following processes will help to distinguish the two kinds of revertants ?

Options :

1. ✘ Complementation
2. ✘ Transgenesis
3. ✘ Test for allelism
4. ✔ Recombination

Question Number : 67 Question Id : 7622113467 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

How many linkage groups are found in human male ?

Options :

1. ✘ 23

2. ✘ 22

3. ✔ 24

4. ✘ 25

Question Number : 68 Question Id : 7622113468 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

For identification of three proteins moving together (as a single band) upon loading in a single lane of a SDS-PAGE gel, the best method is :

Options :

1. ✘ One step Western blot

2. ✘ NMR spectroscopy

3. ✔ Western blot followed by stripping and reprobing

4. ✘ ESR spectroscopy

Question Number : 69 Question Id : 7622113469 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 electro spray ionization spectrum of a highly purified protein shows multiple closely spaced peaks. This most likely arises due to :

Options :

1. ✘ Degradation of protein during recording of the spectrum

2. ✘ The presence of multiple conformations

3. ✔ Multiple charged species of the protein

4. ✘ Extensive aggregation of the protein

Question Number : 70 Question Id : 7622113470 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

Changes in the protein conformation can be detected by :

Options :

- ✘ Ultraviolet absorption spectroscopy
- ✘ Fluorescent emission
- ✔ Circular dichroism
- ✘ All of the three

Question Number : 71 Question Id : 7622113471 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

Flow cytometer is used to measure the number of :

Options :

- ✔ Cells
- ✘ DNA
- ✘ RNA
- ✘ Proteins

Question Number : 72 Question Id : 7622113472 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

Two purified DNA samples A and B contain equal number of base pairs. Each of these DNA sample has one side each for EcoRI and BamHI restriction enzymes. Complete digestion with both the enzymes yielded 3 DNA and 2 DNA bands respectively for A and B upon electrophoresis of the digestion products. Which one of the following explains the observations ?

Options :

- ✘ A is circular DNA and B is linear
- ✔ B is circular DNA and A is linear
- ✘ A is circular DNA and B could be linear or circular
- ✘ B is circular DNA and A could be linear or circular

Question Number : 73 Question Id : 7622113473 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 basis for blue-white screening with pUC vectors is :

Options :

1. Intra-allelic complementation
2. Inter-genic complementation
3. Intra-genic suppression
4. Extra-genic suppression

Question Number : 74 Question Id : 7622113474 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 among the following is the simplest method to estimate the concentration of glycerol in an aqueous solution of glycerol ?

Options :

1. UV absorption spectroscopy
2. Gas chromatography
3. pH measurement
4. Viscosity measurement

Question Number : 75 Question Id : 7622113475 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 rat liver extract is treated with avidin. Which of the following conversion in gluconeogenesis will not occur ?

Options :

1. Glyceraldehyde 3-P into glucose 6-P
2. Malate into Oxaloacetate
3. Pyruvate into phosphoenolpyruvate
4. Fumarate into phosphoenolpyruvate

Question Number : 76 Question Id : 7622113476 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

Why does the glycolytic pathway continue in the direction of glucose catabolism ?

Options :

1. ✓ There are essentially three irreversible reactions that act as the driving force for the pathway.
2. ✗ High levels of ATP keep the pathway going in a forward direction.
3. ✗ The enzymes of glycolysis only function in one direction.
4. ✗ Glycolysis occurs in either direction.

Question Number : 77 Question Id : 7622113477 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 white blood cells act as scavengers when they engulf and digest pathogens ?

Options :

1. ✓ Macrophages
2. ✗ T cells
3. ✗ B cells
4. ✗ Lymphocytes

Question Number : 78 Question Id : 7622113478 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

Basal ganglia associated with which disease ?

Options :

1. ✓ Parkinson's disease
2. ✗ Alzheimer's disease

3. ✘ Motor neuron disease

4. ✘ Glycogen storage disease

Question Number : 79 Question Id : 7622113479 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

Visual information is analyzed and received by :

Options :

1. ✘ Frontal lobe

2. ✘ Parietal lobe

3. ✔ Occipital lobe

4. ✘ Temporal lobe

Question Number : 80 Question Id : 7622113480 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

Beta amyloid fibres are seen in :

Options :

1. ✘ Parkinson's disease

2. ✔ Alzheimer's disease

3. ✘ Motor neuron disease

4. ✘ Glycogen storage disease

Question Number : 81 Question Id : 7622113481 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 sequence is substrate for purine biosynthesis ?

Options :

1. ✔ PRPP (5- phosphoribosyl pyrophosphate)

2. ✘ Ribose phosphate

3. ✘ Ara-C

4. ✘ 5- methyl thymidine

Question Number : 82 Question Id : 7622113482 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 enzymes are involved in DNA replication except :

Options :

1. ✘ DNA polymerase

2. ✘ Helicase

3. ✔ RNA polymerase

4. ✘ Primase

Question Number : 83 Question Id : 7622113483 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 DNA chain acting as template for RNA synthesis has AGCTTCGAT order of bases. What will be the order of bases in mRNA ?

Options :

1. ✘ TCGAAGCTA

2. ✘ UGCUAGCTA

3. ✘ TCGAUCGUA

4. ✔ UCGAAGCUA

Question Number : 84 Question Id : 7622113484 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 complementarity determining regions in antibody :

Options :

1. ✘ are restricted to light chains

2. ✘ are at the hinge region
3. ✘ are at the C-terminal end of the Ig peptide chains
4. ✔ are concerned in antigen recognition

Question Number : 85 Question Id : 7622113485 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

Depolymerization of microtubules is inhibited by :

Options :

1. ✘ Vimentin
2. ✔ Guanosine triphosphate
3. ✘ Dynein
4. ✘ Kinesin

Question Number : 86 Question Id : 7622113486 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

Enzymes used for degradation of RNA in RNA : DNA hybrid :

Options :

1. ✘ RNase A
2. ✔ RNase H
3. ✘ DNase
4. ✘ RNase VI

Question Number : 87 Question Id : 7622113487 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

Linker/adaptor is helpful for the :

Options :

- ✘ Vector synthesis
- ✘ Insert synthesis
- ✔ Restriction site generation
- ✘ Polymerase activity

Question Number : 88 Question Id : 7622113488 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

Super-coiled plasmid DNA can be converted into relaxed plasmid with the help of :

Options :

- ✘ DNA gyrase
- ✘ Endonuclease
- ✘ Ligase
- ✔ Topoisomerase

Question Number : 89 Question Id : 7622113489 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

Tetracycline blocks protein synthesis by :

Options :

- ✘ Inhibiting initiation of translation
- ✔ Inhibiting binding of aminoacyl t-RNA to ribosome
- ✘ Inhibiting translocase enzyme
- ✘ Inhibiting peptidyl transferase

Question Number : 90 Question Id : 7622113490 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 combinations generate increased T-cell receptor diversity ?

Options :

1. ✓ VDDJ recombination
2. ✗ VDJ recombination
3. ✗ VDDJJ recombination
4. ✗ VJ recombination

Question Number : 91 Question Id : 7622113491 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 meaning of palindrome is :

Options :

1. ✗ Specific RNA sequences required for splicing
2. ✗ Specific DNA sequences required for replication initiation
3. ✓ DNA sequences which can be read forward and backward same
4. ✗ Specific DNA sequences required for transcription

Question Number : 92 Question Id : 7622113492 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

Southern blotting used for :

Options :

1. ✓ Transfer of DNA from agarose to membrane
2. ✗ Transfer of RNA from Agarose to membrane
3. ✗ Transfer of protein from Agarose to membrane
4. ✗ Transfer of DNA from membrane to Agarose

Question Number : 93 Question Id : 7622113493 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 SDS/PAGE role of SDS is to provide :

Options :

1. ✓ Negative charge to protein
2. ✗ Positive charge to protein
3. ✗ Ion to buffer
4. ✗ Negative charge to buffer

Question Number : 94 Question Id : 7622113494 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

SYBR green bind with :

Options :

1. ✗ Single stranded DNA
2. ✓ Double stranded DNA
3. ✗ Single Stranded RNA
4. ✗ All

Question Number : 95 Question Id : 7622113495 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

Edman degradation is used for :

Options :

1. ✗ DNA sequencing
2. ✗ RNA sequencing
3. ✓ Peptide and protein sequencing
4. ✗ Not associated with sequencing

Question Number : 96 Question Id : 7622113496 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 eukaryotes translation is initiated by binding of ribosome to the :

Options :

1. ✘ Pribnows box
2. ✘ Hogness box
3. ✔ 5'cap
4. ✘ Poly A tail

Question Number : 97 Question Id : 7622113497 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 smooth ER is especially abundant in cells that synthesize extensive amounts of :

Options :

1. ✘ Proteins
2. ✔ Lipids
3. ✘ Enzymes
4. ✘ Toxins

Question Number : 98 Question Id : 7622113498 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 ?

Options :

1. ✘ A messenger RNA molecule has the form of a double helix
2. ✔ Ribosomes contain RNA nucleotides and proteins

The Uracil nucleotide consists of the uracil nitrogen base, a deoxyribose sugar and a phosphate group

3. ✘

In eukaryotes, DNA is manufactured in the nucleus and RNA is manufactured in the cytoplasm

4. ✘

Question Number : 99 Question Id : 7622113499 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 substances will not stimulate an immune response unless they are bound to a larger molecule ?

Options :

1. ✘ Antigen
2. ✘ Virus
3. ✔ Hapten
4. ✘ Antibody

Question Number : 100 Question Id : 7622113500 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

Monoclonal antibodies recognize a single :

Options :

1. ✘ Antigen
2. ✘ Bacterium
3. ✘ Virus
4. ✔ Epitope