

# Banaras Hindu University

## Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name:</b>	606
<b>Subject Name:</b>	606
<b>Creation Date:</b>	2019-10-22 13:17:57
<b>Duration:</b>	120
<b>Total Marks:</b>	300
<b>Display Marks:</b>	Yes
<b>Calculator:</b>	None
<b>Magnifying Glass Required?:</b>	No
<b>Ruler Required?:</b>	No
<b>Eraser Required?:</b>	No
<b>Scratch Pad Required?:</b>	No
<b>Rough Sketch/Notepad Required?:</b>	No
<b>Protractor Required?:</b>	No
<b>Show Watermark on Console?:</b>	Yes
<b>Highlighter:</b>	No
<b>Auto Save on Console?:</b>	No

## RET\_Medicinal\_Chemistry

<b>Group Number :</b>	1
<b>Group Id :</b>	7622116
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Revisit allowed for view? :</b>	No
<b>Revisit allowed for edit? :</b>	No
<b>Break time:</b>	0
<b>Group Marks:</b>	300

## Research\_Methodology

<b>Section Id :</b>	76221111
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional:</b>	Mandatory
<b>Number of Questions:</b>	40
<b>Number of Questions to be attempted:</b>	40
<b>Section Marks:</b>	120
<b>Display Number Panel:</b>	Yes
<b>Group All Questions:</b>	No

<b>Sub-Section Number:</b>	1
<b>Sub-Section Id:</b>	76221111

Question Number : 1 Question Id : 762211501 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 : 762211502 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 : 762211503 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 : 762211504 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 : 762211505 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 : 762211506 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 : 762211507 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 : 762211508 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 : 762211509 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 : 762211510 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 : 762211511 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 : 762211512 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 : 762211513 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 : 762211514 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 : 762211515 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 : 762211516 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 : 762211517 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 : 762211518 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 : 762211519 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 : 762211520 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 : 762211521 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 : 762211522 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 : 762211523 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 :

Russell 2000 index  
1. ✘ रसेल 2000 सूचकांक

Cochran's formula  
2. ✔ कोकरन का नियम

Tussad's formula  
3. ✘ तुसाद का नियम

Spearman's formula  
4. ✘ स्पीयरमैन का नियम

Question Number : 24 Question Id : 762211524 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 :

It is an expensive method of research  
1. ✘ यह एक महंगी पद्धति है

There are many chances of making errors  
2. ✘ इसमें त्रुटि होने की बहुत संभावना होती है

It is mainly qualitative in nature  
3. ✘ यह मुख्यतया गुणात्मक होता है

It is quantitative in nature  
4. ✔ यह मात्रात्मक होता है

Question Number : 25 Question Id : 762211525 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 : 762211526 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 : 762211527 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 : 762211528 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 : 762211529 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 : 762211530 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 : 762211531 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 : 762211532 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 : 762211533 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 : 762211534 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 : 762211535 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 : 762211536 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 : 762211537 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 : 762211538 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 : 762211539 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 : 762211540 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 कौंटे 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 :	76221112
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:	76221112
Question Shuffling Allowed :	Yes

Question Number : 41 Question Id : 762211541 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 neutrons in the parent nucleus which gives  ${}^{14}\text{N}$  on beta emission is :

Options :

1. ✘ 6

2. ✘ 7

3. ✔ 8

4. ✘ 14

Question Number : 42 Question Id : 762211542 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 hybridisation of carbon in diamond, graphite and acetylene is :

Options :



1. ✘  $sp^3, sp, sp^2$

2. ✘  $sp, sp^2, sp^3$

3. ✔  $sp^3, sp^2, sp$

4. ✘  $sp^2, sp^3, sp$

Question Number : 43 Question Id : 762211543 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 molecule which has the largest dipole moment amongst the following is :

Options :

1. ✘  $CH_4$

2. ✔  $CHCl_3$

3. ✘  $CCl_4$

4. ✘  $CHI_3$

Question Number : 44 Question Id : 762211544 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 example of Lewis acid is :

Options :

1. ✘  $PCl_3$

2. ✘  $NCl_3$

3. ✔  $AlCl_3$

4. ✘  $SnCl_4$

Question Number : 45 Question Id : 762211545 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 behaves both as a Nucleophile and Electrophile ?

Options :

1. ✘  $\text{CH}_3\text{NH}_2$
2. ✘  $\text{CH}_3\text{Cl}$
3. ✔  $\text{CH}_3\text{CN}$
4. ✘  $\text{CH}_3\text{OH}$

Question Number : 46 Question Id : 762211546 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

Benzene reacts with  $\text{CH}_3\text{COCl}$  in presence of  $\text{AlCl}_3$  to give :

Options :

1. ✘  $\text{C}_6\text{H}_5\text{Cl}$
2. ✘  $\text{C}_6\text{H}_5\text{COCl}$
3. ✘  $\text{C}_6\text{H}_5\text{CH}_3$
4. ✔  $\text{C}_6\text{H}_5\text{COCH}_3$

Question Number : 47 Question Id : 762211547 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

Markownikoff's rule provides guidance of addition of  $\text{HBr}$  on :

Options :

1. ✘  $\text{CH}_2 = \text{CH}_2$
2. ✘  $\text{CH}_3.\text{CH}_2.\text{CH}_3$
3. ✘  $\text{CH}_3.\text{CH} = \text{CH}.\text{CH}_3$
4. ✔  $\text{CH}_2 = \text{CHBr}$

Question Number : 48 Question Id : 762211548 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

According to Bohr's theory, the angular momentum for an electron of 5th orbit is :

Options :

1. ✘  $\frac{25h}{\pi}$

2. ✘  $\frac{5h}{\pi}$

3. ✘  $\frac{25h}{2\pi}$

4. ✔  $\frac{5h}{2\pi}$

Question Number : 49 Question Id : 762211549 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 temperature at which real gas obeys the ideal gas laws over a wide range of pressure is called :

Options :

1. ✘ Critical temperature

2. ✔ Boyle temperature

3. ✘ Inversion temperature

4. ✘ Reduced temperature

Question Number : 50 Question Id : 762211550 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

Carnot engine would violate the second law of thermodynamics if its efficiency is :

Options :

1. ✓ 100%

2. ✗ 25%

3. ✗ 50%

4. ✗ 75%

Question Number : 51 Question Id : 762211551 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 azimuthal quantum number  $l = 3$ , the maximum number of electrons will be :

Options :

1. ✗ 2

2. ✗ 6

3. ✗ 0

4. ✓ 14

Question Number : 52 Question Id : 762211552 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 substance acts as a superconductor at 4K ?

Options :

1. ✓ He

2. ✗ Cu

3. ✗ Na

4. ✗ Mg

Question Number : 53 Question Id : 762211553 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 electronegative ?

Options :

1. ✘  $O_2$

2. ✘  $Cl_2$

3. ✔  $F_2$

4. ✘  $N_2$

Question Number : 54 Question Id : 762211554 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 statement is *incorrect* ?

Options :

1. ✘  $H_2O_2$  can act as oxidising agent

2. ✘  $H_2O_2$  can act as reducing agent

3. ✘  $H_2O_2$  has acidic properties

4. ✔  $H_2O_2$  has basic properties

Question Number : 55 Question Id : 762211555 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

Froth floatation process is used for the metallurgy of :

Options :

1. ✘ Chloride ores

2. ✘ Oxide ores

3. ✔ Sulphide ores

4. ✘ Amalgam

Question Number : 56 Question Id : 762211556 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 will reduce Tollen's reagent ?

Options :

1. ✓ HCOOH
2. ✗ CH<sub>3</sub>COOH
3. ✗ COOH.COOH
4. ✗ CH<sub>3</sub>COOC<sub>2</sub>H<sub>5</sub>

Question Number : 57 Question Id : 762211557 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* glyceride ?

Options :

1. ✗ Fat
2. ✗ Oil
3. ✗ Phospholipid
4. ✓ Soaps

Question Number : 58 Question Id : 762211558 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 minimum energy required for the reacting molecule to undergo reaction is :

Options :

1. ✗ Potential energy
2. ✗ Kinetic energy

3. ✘ Thermal energy

4. ✔ Activation energy

Question Number : 59 Question Id : 762211559 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

On hydrolysis of starch, we finally get :

Options :

1. ✔ Glucose

2. ✘ Fructose

3. ✘ Both Glucose & Fructose

4. ✘ Sucrose

Question Number : 60 Question Id : 762211560 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* present in RNA ?

Options :

1. ✘ Uracil

2. ✔ Thymine

3. ✘ Ribose

4. ✘ Phosphate

Question Number : 61 Question Id : 762211561 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

Aniline is purified by :

Options :



1. ✓ Steam distillation
2. ✗ Simple distillation
3. ✗ Vacuum distillation
4. ✗ Extraction with solvent

Question Number : 62 Question Id : 762211562 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 following reaction  $C_2H_5Br + NaOH \rightarrow C_2H_5OH + NaBr$  is :

Options :

1. ✓ Nucleophilic
2. ✗ Electrophilic
3. ✗ Redox
4. ✗ Free radical formation

Question Number : 63 Question Id : 762211563 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 compound of potassium is known as "pearl ash" ?

Options :

1. ✗ KOH
2. ✗  $KMnO_4$
3. ✓  $K_2CO_3$
4. ✗  $K_2O_3$

Question Number : 64 Question Id : 762211564 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 combines with Fe (II) ions to form a brown complex ?

Options :

1. ✘  $\text{N}_2\text{O}$
2. ✔  $\text{N}_2\text{O}_3$
3. ✘  $\text{NO}$
4. ✘  $\text{N}_2\text{O}_4$

Question Number : 65 Question Id : 762211565 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 example of non-reducing sugar is :

Options :

1. ✘ Lactose
2. ✘ Fructose
3. ✔ Sucrose
4. ✘ Maltose

Question Number : 66 Question Id : 762211566 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 gas that is heated up during Joule-Thomson effect at ordinary temperature is :

Options :

1. ✘  $\text{O}_2$
2. ✘  $\text{CO}_2$
3. ✔  $\text{H}_2$

4. ✖ SO<sub>2</sub>

Question Number : 67 Question Id : 762211567 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

Cinnabar is an ore of :

Options :

1. ✔ Hg

2. ✖ Cu

3. ✖ Pb

4. ✖ Zn

Question Number : 68 Question Id : 762211568 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

Magnetic quantum number specifies :

Options :

1. ✖ Size of orbitals

2. ✖ Shape of orbitals

3. ✔ Orientation of orbitals in shape

4. ✖ Nuclear stability

Question Number : 69 Question Id : 762211569 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

Sulphur containing amino acid is :

Options :

1. ✖ Glycine

2. ✘ Valine
3. ✔ Methionine
4. ✘ Tryptophan

Question Number : 70 Question Id : 762211570 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

Precursor for fatty acid synthesis is :

Options :

1. ✘ Glycogen
2. ✔ Acetyl CoA
3. ✘ Citric acid
4. ✘ Glycerol

Question Number : 71 Question Id : 762211571 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 80 kDa purified native protein showed two bands on the SDS-Polyacrylamide gel. This indicates that the purified protein was :

Options :

1. ✘ Monomeric
2. ✘ Homodimeric
3. ✔ Heterodimeric
4. ✘ Covalently modified

Question Number : 72 Question Id : 762211572 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

Bear-Lambert Law does not hold good if the absorbance is measured :

Options :

1. ✘ at the absorbance maxima
2. ✘ using a monochromatic light
3. ✘ below the critical maximum solute concentration
4. ✔ above the critical maximum solute concentration

Question Number : 73 Question Id : 762211573 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 substances are known as ketone bodies EXCEPT :

Options :

1. ✘ Acetoacetate
2. ✘ Beta hydroxy butyrate
3. ✘ Acetone
4. ✔ Alpha keto glutarate

Question Number : 74 Question Id : 762211574 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 statements about beta oxidation of fatty acids is *incorrect* ?

Options :

1. ✔ FADH<sub>2</sub> and NADPH are consumed during beta oxidation.

Acyl CoA synthetase catalyzes the only step of fatty acid oxidation that

2. ✘ requires energy.

3. ✘ Acetyl-CoA is the end product of beta oxidation.

4. ✘ Carnitine carries activated long chain fatty acids into mitochondrial matrix.

Question Number : 75 Question Id : 762211575 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 carbon compound extracted from living tissue was found to contain exactly twice as many hydrogen atoms as oxygen atoms. To which of the following classes of biological molecule is it likely to belong ?

Options :

1. ✔ Carbohydrate

2. ✘ Lipid

3. ✘ Nucleic acid

4. ✘ Protein

Question Number : 76 Question Id : 762211576 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 process is a reduction reaction ?

Options :

1. ✘ cytochrome C  $\text{Fe}^{2+} \rightarrow \text{cytochrome C Fe}^{3+}$

2. ✔  $\text{FAD} \rightarrow \text{FADH}_2$

3. ✘  $\text{NADH} \rightarrow \text{NAD}^+$

4. ✘ Ascorbic acid  $\rightarrow$  Dehydroascorbic acid

Question Number : 77 Question Id : 762211577 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 these compounds would contain the smallest number of oxygen atoms ?

Options :

1. ✔ A saturated fatty acid

2. ✘ A polypeptide
3. ✘ A polysaccharide
4. ✘ Glycerol

Question Number : 78 Question Id : 762211578 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 these techniques could be used to separate molecules according to their differential solubility in a given solvent ?

Options :

1. ✘ Electrophoresis
2. ✘ Ultracentrifugation
3. ✔ Chromatography
4. ✘ Gel filtration

Question Number : 79 Question Id : 762211579 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 moles of substrate converted to product per minute per mol of enzyme is the :

Options :

1. ✘  $K_m$
2. ✘  $V_{max}$
3. ✘  $K_m/V_{max}$
4. ✔ Turnover number

Question Number : 80 Question Id : 762211580 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

"Oxidative stress" refers to :



Options :

- ✘ the fact that oxidative phosphorylation requires ADP
- ✘ the fact that oxidative phosphorylation requires molecular oxygen  
the formation of free radicals because of the imperfect reduction of oxygen to
- ✔ give water
- ✘ the failure of aerobic glycolysis to meet the energy demands of muscle

Question Number : 81 Question Id : 762211581 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 :

- ✘ Once formed, microtubules are generally stable for the lifetime of the cell.
- ✔ Centrosomes replicate and divide to form the poles of the spindle body.
- ✘ The nuclear membrane remains intact throughout the mammalian cell cycle.
- ✘ In mitosis, one cell divides to create two gametes.

Question Number : 82 Question Id : 762211582 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

Frogs begin life as tadpoles in an aqueous environment. As they mature, they convert from being largely ammonotelic to being ureotelic. Which of the following enzyme activities would you expect to increase dramatically as frogs mature ?

Options :

- ✘ Glutamine synthase
- ✘ Alanine aminotransferase
- ✔ Carbamoyl phosphate synthetase I

#### 4. ✖ Glutamine synthase

Question Number : 83 Question Id : 762211583 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. ✖ The genetic code of mammals is different from that of *E. coli*.

Ribosomal frameshifting allows one segment of the HIV genome to code for

2. ✔ more than one protein molecule

Exons are segments of genes that are not expressed in the resultant protein

3. ✖ molecule

4. ✖ Introns and Exons are common in bacteria

Question Number : 84 Question Id : 762211584 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

Competitive inhibitors are commonly used in chemotherapy, because :

Options :

1. ✖ the inhibitors decrease the total amount of substrate.

the inhibitors alter the enzymes when they bind and decrease the  $V_{max}$  of the

2. ✖ reaction.

the inhibitor resembles the structure of the product and inhibit the reaction by

3. ✖ negative feedback.

4. ✔ the inhibitor binds only to the active site and increases the  $K_m$ .

Question Number : 85 Question Id : 762211585 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 enzyme in muscle which is most directly stimulated by epinephrine is :

Options :

1. ✓ adenylate cyclase.
2. ✗ glycogen synthase.
3. ✗ glucose-6-phosphatase.
4. ✗ isocitrate dehydrogenase.

Question Number : 86 Question Id : 762211586 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 statements are correct with regard to chromatin EXCEPT :

Options :

Core nucleosomes consist of 8 histone protein molecules and about 146 base

1. ✗ pairs of DNA.
2. ✗ Histones have been highly conserved during evolution.
3. ✗ Almost all of the DNA in a eukaryotic cell is assembled into nucleosomes.
4. ✓ Assembly of DNA into nucleosomes compacts it about 100-fold in length.

Question Number : 87 Question Id : 762211587 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 enzyme(s) can remove or insert supercoil twists into circular DNA ?

Options :

1. ✓ Topoisomerases
2. ✗ DNA Pol II
3. ✗ Spliceosomes
4. ✗ Helicase

Question Number : 88 Question Id : 762211588 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 RNA primer is removed from the Okazaki fragment by :

Options :

1. ✘ DNA Pol II
2. ✔ DNA Pol I
3. ✘ DNA Pol III
4. ✘ RNA polymerase

Question Number : 89 Question Id : 762211589 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

Histones have an abundance of which of the following amino acids ?

Options :

1. ✔ Lysine and arginine
2. ✘ Alanine and glutamine
3. ✘ Glycine and Glutamine
4. ✘ Arginine and Glutamine

Question Number : 90 Question Id : 762211590 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

Actinomycin D is an inhibitor of ?

Options :

1. ✘ Replication
2. ✔ Transcription
3. ✘ Translation

#### 4. ✘ Transposition

Question Number : 91 Question Id : 762211591 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 promoter site on DNA :

Options :

1. ✘ is present upstream to the start site
2. ✘ is present on the coding strand
3. ✘ initiates transcription
4. ✔ all of the three

Question Number : 92 Question Id : 762211592 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 mutagenicity of a compound can be detected by :

Options :

1. ✘ ELISA
2. ✔ Ame's test
3. ✘ Western blotting
4. ✘ All of the three

Question Number : 93 Question Id : 762211593 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

Mother of a malnourished child has been instructed to include a complete protein in diet for her child. Which out of the following diet should be recommended ?

Options :

1. ✘ Pulses



2. ✘ Wheat
3. ✘ Soy Protein
4. ✔ Milk

Question Number : 94 Question Id : 762211594 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 8 years old boy is treated with Ciprofloxacin for some respiratory infection. Which of the following enzyme activity is most directly affected by this drug ?

Options :

1. ✘ DNA polymerase
2. ✔ Topoisomerase
3. ✘ Reverse transcriptase
4. ✘ RNA polymerase

Question Number : 95 Question Id : 762211595 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 species of denatured DNA will renature most rapidly in solution, under appropriate conditions of ionic strength, pH and temperature ?

Options :

1. ✘ *E. coli* DNA
2. ✘ Yeast nuclear DNA
3. ✔ Vaccinia (viral) DNA
4. ✘ Mouse neuronal DNA

Question Number : 96 Question Id : 762211596 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 followings are likely to occur after the ingestion of a very large amount of carbohydrate EXCEPT :

Options :

1. ✘ synthesis of triacylglycerol in the liver.
2. ✘ synthesis of glycogen in the liver.
3. ✘ oxidation of glucose by the pentose phosphate pathway in liver.
4. ✔ lipolysis in adipose tissue.

Question Number : 97 Question Id : 762211597 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

Where are the synaptic vesicles containing neurotransmitters located ?

Options :

1. ✔ On the presynaptic cell
2. ✘ In the soma
3. ✘ On the postsynaptic cell
4. ✘ In the dendrites

Question Number : 98 Question Id : 762211598 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 transmitter substance is produced in the endocrine gland and travels through the blood ?

Options :

1. ✘ Neurotransmitters
2. ✘ Neuromodulators
3. ✔ Hormones

#### 4. ✘ Pheremones

Question Number : 99 Question Id : 762211599 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 collective name for dopamine, serotonin and noradrenaline is :

Options :

1. ✔ Amines
2. ✘ Hallucinogens
3. ✘ Neurotransmitters
4. ✘ Anxiolytics

Question Number : 100 Question Id : 762211600 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 role of mRNA in protein synthesis is :

Options :

1. ✘ It translates genetic code to a specific amino acid
2. ✘ It modifies mRNA molecules prior to protein synthesis
3. ✔ It provides genetic blueprint for the protein
4. ✘ It catalyzes the process