

# 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 11th April 2021 Shift 2
<b>Subject Name :</b>	606
<b>Creation Date :</b>	2021-04-11 19:03:26
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<b>Display Marks:</b>	Yes
<b>Share Answer Key With Delivery Engine :</b>	Yes
<b>Actual Answer Key :</b>	Yes
<b>Calculator :</b>	None
<b>Magnifying Glass Required? :</b>	No
<b>Ruler Required? :</b>	No
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<b>Scratch Pad Required? :</b>	No
<b>Rough Sketch/Notepad Required? :</b>	No
<b>Protractor Required? :</b>	No
<b>Show Watermark on Console? :</b>	Yes
<b>Highlighter :</b>	No
<b>Auto Save on Console?</b>	No
<b>Change Font Color :</b>	No
<b>Change Background Color :</b>	No
<b>Change Theme :</b>	No
<b>Help Button :</b>	No
<b>Show Reports :</b>	No
<b>Show Progress Bar :</b>	No

## RET\_Medicinal Chemistry

<b>Group Number :</b>	1
<b>Group Id :</b>	509398102
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	300

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

## Research\_Methodology

Section Id :	509398142
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	40
Number of Questions to be attempted :	40
Section Marks :	120
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	509398169
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 50939812423 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Generalised conclusion on the basis of a sample is technically known as :

एक नमूने के आधार पर सामान्यीकृत निष्कर्ष तकनीकी रूप से जाना जाता है :

Options :

1. ✓ Statistical inference  
सांख्यिकीय निष्कर्ष
2. ✘ Descriptive statistic  
वर्णनात्मक आँकड़ा
3. ✘ Data analysis and interpretation  
डेटा विश्लेषण और व्याख्या
4. ✘ All of the three  
तीनों में सभी

**Question Number : 2 Question Id : 50939812424 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

The protocol of asking pre-meditated questions in instruments of data collection is :  
समक संग्रह के उपकरणों में पूर्व-मध्यस्थता प्रश्न पूछने का प्रोटोकॉल है :

**Options :**

1. ✓ Structured  
संरचनात्मक

2. ✗ Unstructured  
असंरचित

3. ✗ Free-rein  
फ्री-रेन

4. ✗ Systematic  
व्यवस्थित

**Question Number : 3 Question Id : 50939812425 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Survey research is cross-sectional and therefore :  
सर्वेक्षण अनुसंधान पार-अनुभागीय है और इसलिए :

**Options :**

1. ✓ High in replicability but low in internal validity  
प्रतिकृति में उच्च लेकिन आंतरिक वैधता में कम

2. ✗ High in internal validity but low in reliability  
आंतरिक वैधता में उच्च लेकिन विश्वसनीयता में कम

3. ✗ High in ecological validity but low in external validity  
पारिस्थितिक वैधता में उच्च लेकिन बाहरी वैधता में कम

None of the three

4. ✖ तीनों में से कोई नहीं

**Question Number : 4 Question Id : 50939812426 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Testing hypothesis is a .....  
परिकल्पना परीक्षण है .....

**Options :**

1. ✔ Inferential statistics  
आनुमानिक सांख्यिकी

2. ✖ Descriptive statistics  
वर्णनात्मक सांख्यिकी

3. ✖ Data preparation  
समंक का अयोजन

4. ✖ Data analysis  
समंक का विश्लेषण

**Question Number : 5 Question Id : 50939812427 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Inductive logic proceeds from :  
आगमनात्मक तर्क अग्रसर होता है :

**Options :**

1. ✖ General to General  
सामान्य से सामान्य

2. ✔ Particular to General  
विशेष से सामान्य

General to Particular

3. ✖ सामान्य से विशेष

Particular to Particular

4. ✖ विशेष से विशेष

**Question Number : 6 Question Id : 50939812428 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

The sampling technique based on referral system of respondents is known as :

उत्तरदाताओं की रेफरल प्रणाली पर आधारित प्रतिचयन तकनीक को जाना जाता है :

**Options :**

Convenience Sampling

1. ✖ सुविधा प्रतिचयन

Snowball Sampling

2. ✔ स्नोबॉल प्रतिचयन

Cluster Sampling

3. ✖ समूह प्रतिचयन

Stratified Sampling

4. ✖ स्तरीकृत प्रतिचयन

**Question Number : 7 Question Id : 50939812429 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Analysing the impact of demonetization on economic growth falls under which category of research ?

आर्थिक विकास पर नोटबंदी के प्रभाव का विश्लेषण किस शोध या अनुसंधान श्रेणी के अन्तर्गत आता है ?

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

## candidates.

### Options :

1. Descriptive Research  
वर्णनात्मक शोध
2. Fundamental Research  
मौलिक शोध
3. Pure Research  
शुद्ध शोध
4. Casual Research  
कारणात्मक शोध

**Question Number : 8 Question Id : 50939812430 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Likert scaling is based on :

लिकर्ट पैमाना आधारित है :

### Options :

1. ✓ Item-wise scale  
मद-क्रम पैमाने पर
2. ✗ Summative scale  
योगात्मक पैमाने पर
3. ✗ Reflective scale  
परावर्तक पैमाने पर
4. ✗ Formative scale  
प्रारंभिक पैमाने पर

**Question Number : 9 Question Id : 50939812431 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

A research design appropriate for a particular research problem, usually involves the consideration of the following factors :

एक शोध रूपरेखा एक विशेष शोध समस्या के लिए उपयुक्त होती है, जिसमें सामान्यतया निम्नलिखित कारकों पर विचार किया जाता है :

- (a) The means of obtaining information  
सूचना प्राप्त करने का साधन
- (b) The availability and skills of the researcher  
शोधकर्ता की उपलब्धता और कौशल
- (c) The nature of the problem to be studied  
अध्ययन की जाने वाली समस्या की प्रकृति
- (d) The availability of time and money for the research work  
शोध कार्य के लिए समय और धन की उपलब्धता

**Options :**

(a), (b) and (d)  
1. ✘ (a), (b) और (d)

(a), (b) and (c)  
2. ✘ (a), (b) और (c)

(a), (b), (c) and (d)  
3. ✔ (a), (b), (c) और (d)

(b), (c) and (d)  
4. ✘ (b), (c) और (d)

**Question Number : 10 Question Id : 50939812432 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

SHODHGANGOTRI is :  
SHODHGANGOTRI है :

**Options :**

1. ✖ Database of articles  
लेखों का डेटाबेस
2. ✖ Database of thesis & dissertation  
थीसिस और शोध प्रबंध का डेटाबेस
3. ✔ Database of research synopsis  
रिसर्च सिनोप्सिस का डेटाबेस
4. ✖ Database of experts  
विशेषज्ञों का डेटाबेस

**Question Number : 11 Question Id : 50939812433 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following statements about random sampling method is *not* true ?  
यादृच्छिक न्यादर्श पद्धति के बारे में निम्नलिखित में से क्या सत्य *नहीं* है ?

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

**Options :**

1. In this methods, each unit has equal chance to be selected.  
इस पद्धति में प्रत्येक इकाई के चयनित होने का समान अवसर होता है।
2. Each sample has equal chance of selection.  
प्रत्येक प्रतिदर्श के चयन की सम्भावना समान होती है।
3. It is free from personal prejudices and bias  
यह व्यक्तिगत पूर्वधारणाओं और पक्षपातों से रहित होता है।
4. This method is very simple to use  
यह पद्धति प्रयोग करने में बेहद आसान है।



**Question Number : 12 Question Id : 50939812434 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

The English word 'Research' derives its origin from :

अंग्रेजी शब्द 'रिसर्च' (शोध) की व्युत्पत्ति है :

**Options :**

1. ✘ Latin  
लैटिन
2. ✔ French  
फ्रेंच
3. ✘ German  
जर्मन
4. ✘ Italian  
इटालियन

**Question Number : 13 Question Id : 50939812435 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following approach uses the study of groups to identify general laws that apply to a large group of people ?

इनमें से कौ-सा दृष्टिकोण लोगों के बड़े समूह पर लागू होने वाले सामान्य नियमों की पहचान करने के लिए 'समूहों के अध्ययन' का उपयोग करता है ?

**Options :**

1. ✘ Idiographic Approach  
इडियोग्राफिक (वस्तुपरक) दृष्टिकोण
2. ✔ Nomothetic Approach  
नोमोथेटिक (सिद्धान्तपरक) दृष्टिकोण
3. ✘ Empirical Approach  
अनुभवजन्य दृष्टिकोण

**Question Number : 14 Question Id : 50939812436 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

In the context of Research Process, the following operational steps are taken in certain order :

अनुसंधान प्रक्रिया के संदर्भ में, निम्नलिखित परिचालन चरण एक निश्चित क्रम में उठाए जाते हैं :

- (A) Conceptualising the research design  
अनुसंधान अभिकल्प की अवधारणा।
- (B) Formulating a research problem  
शोध समस्या का गठन।
- (C) Selecting a sample  
प्रतिदर्श का चयन।
- (D) Constructing an instrument for data collection  
डेटा संग्रह के लिए अनुसंधान साधन का निर्माण।

Which of the following options represents the correct order ?

निम्नलिखित में से कौन-सा विकल्प सही क्रम का प्रतिनिधित्व करता है ?

**Options :**

- 1. ✔ B, A, D, C
- 2. ✖ B, D, A, C
- 3. ✖ B, C, A, D
- 4. ✖ B, C, D, A

**Question Number : 15 Question Id : 50939812437 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Impact factor of a journal is defined as :

किसी जर्नल के प्रभाव कारक (Impact factor) को इस प्रकार परिभाषित किया गया है :

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

**Options :**

It is the monthly average number of citations that articles published in the last twelve months in a given journal received

यह किसी दिए गए जर्नल में पिछले बारह महीनों में प्रकाशित लेखों की मासिक औसत उद्धरण संख्या है

1.

It is the yearly average number of citations that articles published in the last four years in a given journal received

यह दी गई पत्रिका में पिछले चार वर्षों में प्रकाशित लेखों की वार्षिक औसत उद्धरण संख्या है

2.

It is the yearly average number of citations that articles published in the last two years in a given journal received

यह किसी दिए गए जर्नल में पिछले दो वर्षों में प्रकाशित लेखों की वार्षिक औसत उद्धरण संख्या है

3.

It is the yearly average number of citations that articles published in the last five years in a given journal received

यह दी गई पत्रिका में पिछले पाँच वर्षों में प्रकाशित लेखों की वार्षिक औसत उद्धरण संख्या है

4.

**Question Number : 16 Question Id : 50939812438 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

The three basic principles of experimental design are :

प्रयोगात्मक योजना के तीन मूलभूत सिद्धान्त हैं :

**Options :**

Replication, randomization and Substitution

1. ✘ रेप्लीकेशन, रैन्डोमाइजेशन एवं सब्स्टीट्यूशन

Replication, randomization, and local control

2. ✔ रेप्लीकेशन, रैन्डोमाइजेशन एवं लोकल कंट्रोल

3. ✘ Substitution, replication and local control  
सबस्टीट्यूशन, रेप्लीकेशन एवं लोकल कन्ट्रोल

4. ✘ Substitution, randomization and local control  
सबस्टीट्यूशन, रैन्डोमाइजेशन एवं लोकल कन्ट्रोल

**Question Number : 17 Question Id : 50939812439 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**  
Question Label : Multiple Choice Question

Differences in the means of more than two treatments are analysed by :  
दो से अधिक उपचारों के माध्य में विभेद का विश्लेषण किया जाता है :

Options :

1. ✘ Simple t-test  
साधारण टी-परीक्षण

2. ✘ Chi square test  
काई स्क्वायर परीक्षण

3. ✔ F-test  
एफ-परीक्षण

4. ✘ Paired sample t-test  
युग्मित सैम्पल टी-टेस्ट

**Question Number : 18 Question Id : 50939812440 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**  
Question Label : Multiple Choice Question

Which of the following is *not* a method of research ?  
निम्नलिखित में से कौन शोध की एक विधि *नहीं* है ?

Options :

1. ✖ Survey  
सर्वेक्षण
2. ✖ Historical  
ऐतिहासिकता
3. ✔ Observation  
अवलोकन
4. ✖ Philosophical  
दार्शनिकता

**Question Number : 19 Question Id : 50939812441 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following graphical presentation is two dimensional ?  
निम्न में से कौन आरेखीय प्रस्तुतीकरण दो अक्षीय है ?

**Options :**

1. ✖ Pie chart  
पाई चार्ट
2. ✖ Bar chart  
दण्ड आरेख
3. ✔ Histogram  
आयत चित्र
4. ✖ Box plot  
बॉक्स प्लॉट

**Question Number : 20 Question Id : 50939812442 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Correlational Research can be classified from the perspectives of :

सह-संबंध अनुसंधान को किस दृष्टिकोण के आधार पर वर्गीकृत किया जा सकता है ?

Options :

Applications of the findings of the research study.

1. ✘ शोध अध्ययन के निष्कर्षों के अनुप्रयोग के आधार पर।

Objectives of the research study.

2. ✔ शोध अध्ययन के उद्देश्य के आधार पर।

Mode of enquiry used in conducting the study.

3. ✘ अध्ययन के संचालन में उपयोग की जाने वाली जांच के तरीके के आधार पर।

Outcome of the research.

4. ✘ शोध के परिणाम के आधार पर।

**Question Number : 21 Question Id : 50939812443 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

A researcher might want to examine the reactions of the general population towards people in wheelchairs. He/She can study their reactions by sitting in a wheelchair himself/herself. Such method of collecting data is known as :

एक शोधकर्ता व्हीलचेयर में बैठे लोगों के प्रति सामान्य आबादी की प्रतिक्रियाओं की जांच करना चाहता है। वह स्वयं व्हीलचेयर में बैठकर उनकी प्रतिक्रियाओं का अध्ययन कर सकता है। डेटा एकत्र करने की इस विधि को किस रूप में जाना जाता है ?

Options :

Disguised Observation

1. ✘ प्रच्छन्न अवलोकन

Participant Observation

2. ✔ प्रतिभागी अवलोकन

Non-Participant Observation

3. ✘ गैर-प्रतिभागी अवलोकन

Self Recording Observation

4. ✘ स्वयं रिकॉर्डिंग अवलोकन

**Question Number : 22 Question Id : 50939812444 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following is are citation/reference style(s) ?

निम्नलिखित में से कौन उद्धरण/संदर्भ विधि (विधियाँ) है/हैं ?

- (A) American Physical Association  
अमेरिकन फिजिकल एसोसिएशन
- (B) Modern Linguistic Association  
मॉडर्न लिंग्विस्टिक एसोसिएशन
- (C) Oxford Standard for the Citation of Language Association  
ऑक्सफोर्ड स्टेण्डर्ड फॉर द साइटेशन ऑफ लैंग्वेज एसोसिएशन
- (D) Vancouver  
वैंकूवर

Choose the correct answer from the codes given below :

निम्नलिखित में से कौन-सा सही कूट है :

**Options :**

- (a), (b), (c) and (d)
- 1. ✘ (a), (b), (c) और (d)
- (a), (b) and (c)
- 2. ✘ (a), (b) और (c)
- (a) and (d)
- 3. ✘ (a) और (d)
- (d) only
- 4. ✔ केवल (d)

**Question Number : 23 Question Id : 50939812445 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

One-way ANOVA is used to :

एक-तरफा एनोवा का उपयोग किया जाता है :

**Options :**

Determine whether there is any statistically significant difference between the means of single independent group before and after intervention

यह निर्धारित करता है कि क्या एक स्वतंत्र समूह में हस्तक्षेप के पहले और बाद के माध्य (mean) के बीच कोई सांख्यिकीय महत्वपूर्ण अंतर है

1. ✖

Determine whether there are any statistically significant differences between the medians of two or more independent groups

यह निर्धारित करता है कि क्या दो या अधिक स्वतंत्र समूहों के मध्यस्थों के बीच कोई सांख्यिकीय महत्वपूर्ण अंतर है

2. ✖

Determine whether there are any statistically significant differences between the means of two or more independent/unrelated groups

यह निर्धारित करता है कि क्या दो या अधिक स्वतंत्र/असंबंधित समूहों के माध्य (mean) के बीच कोई सांख्यिकीय महत्वपूर्ण अंतर है या नहीं

3. ✔

Determine whether there are any statistically significant differences between the squared means of two or more independent group

निर्धारित करता है कि क्या दो या अधिक स्वतंत्र समूहों के वर्ग माध्य (squared mean) के बीच कोई सांख्यिकीय महत्वपूर्ण अंतर है या नहीं

4. ✖

**Question Number : 24 Question Id : 50939812446 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following principles of experimental design have been enumerated by Professor R. A. Fisher ?

प्रायोगिक डिजाइन के निम्नलिखित सिद्धान्तों में से कौन-कौन से सिद्धान्त प्रोफेसर आर० ए० फिशर द्वारा गिनाए गए हैं ?

- (a) Principle of Revision  
संशोधन का सिद्धान्त
- (b) Principle of Replication  
प्रतिकृति का सिद्धान्त
- (c) Principle of Randomization  
यादृच्छिकीकरण का सिद्धान्त
- (d) Principle of Local Control  
स्थानीय नियंत्रण का सिद्धान्त

Choose the correct answer from the codes given below :

नीचे दिए गए कोड में से सही उत्तर चुनें :

**Options :**



(a), (b) and (c)  
(a), (b) और (c)

1. ✖

(a), (b) and (d)  
(a), (b) और (d)

2. ✖

(b) (c) and (d)  
(b) (c) और (d)

3. ✔

(a), (c) and (d)  
(a), (c) और (d)

4. ✖

**Question Number : 25 Question Id : 50939812447 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

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

कथन A और B पढ़ें और सही विकल्प चुनें :

Statement A : Exploratory research studies are also termed as formulative research studies.

कथन A : अन्वेषणात्मक शोध अध्ययनों को प्रारंभिक शोध अध्ययन भी कहा जाता है।

Statement B : Exploratory research study is undertaken with the objective either to explore an area where little is known or to investigate the possibilities of undertaking a particular research study.

कथन B : अन्वेषणात्मक शोध अध्ययन का उद्देश्य किसी ऐसे विषय में शोध करना जिसके बारे में बेहद कम जानकारी उपलब्ध हो या किसी खास विषय के बारे में शोध अध्ययन करने की संभावनाओं का पता लगाना होता है।

**Options :**

Both the statements are true.

1. ✔ दोनों कथन सत्य हैं।

Both the statements are false.

2. ✖ दोनों कथन असत्य हैं।

Statement A is true but B is false.

3. ✖ कथन A सत्य है लेकिन B गलत है।

Statement B is true but A is false.

4. ✖ कथन B सत्य है लेकिन A गलत है।

**Question Number : 26 Question Id : 50939812448 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following are the online anti-plagiarism software ?

निम्नलिखित में से कौन-से ऑनलाइन एंटी-प्लेजिअरिज्म सॉफ्टवेयर हैं :

- (a) Urkund  
उरकुंड
- (b) Overleaf  
ओवरलीफ
- (c) Turnitin  
टर्निटिन
- (d) Viper  
वाईपर

Choose the correct answer from the codes given below :

नीचे दिए गए कोड में से सही उत्तर चुनें :

**Options :**

- (a), (b) and (c)
- 1. ✘ (a), (b) और (c)
- (a), (b) and (d)
- 2. ✘ (a), (b) और (d)
- (a), (c) and (d)
- 3. ✔ (a), (c) और (d)
- (a) and (c)
- 4. ✘ (a) और (c)

**Question Number : 27 Question Id : 50939812449 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Whether a test is one-sided or two-sided depends on :

क्या एक परीक्षण एकतरफा है या दो तरफा है :

**Options :**

1. ✓  alternative hypothesis  
वैकल्पिक परिकल्पना
2. ✗  null and alternate both  
शून्य और वैकल्पिक दोनों
3. ✗  null hypothesis  
अशक्त परिकल्पना
4. ✗  either by null or by alternate  
या तो शून्य या वैकल्पिक द्वारा

**Question Number : 28 Question Id : 50939812450 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which measure of dispersion do not depends on all observations ?

फैलाव का कौन सा माप सभी अवलोकनों पर निर्भर नहीं करता है ?

**Options :**

1. ✗  Root mean & square deviation  
मूल माध्य और वर्ग विचलन
2. ✗  Mean deviation  
माध्य विचलन
3. ✓  Quartile deviation  
चतुर्थक विचलन
4. ✗  Standard deviation  
मानक विचलन

**Question Number : 29 Question Id : 50939812451 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

If  $r$  is the simple correlation coefficient, the quantity  $r^2$  is termed as :

यदि  $r$  सरल सहसंबंध गुणांक है, तो मात्र  $r^2$  को निम्न के रूप में कहा जाता है :

**Options :**

1. ✘ Coefficient of alienation  
परकीयकरण का गुणांक
2. ✘ Coefficient of variation  
भिन्नता का गुणांक
3. ✔ Coefficient of determination  
दृढ़ संकल्प का गुणांक
4. ✘ Coefficient of non-determination  
गैर-निर्धारण का गुणांक

**Question Number : 30 Question Id : 50939812452 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

A Scattergram is extremely effective :

एक स्कैटरग्राम अत्यंत प्रभावी है :

**Options :**

1. ✔ to show visually how two variables are covering  
नेत्रहीन दिखाने के लिए कि दो चर कैसे ढकते हैं
2. ✘ in organising the scattered footnotes of the research.  
शोध के बिखरे पांवों को व्यवस्थित करने में।
3. ✘ in organising the scattered bibliography of the research.  
शोध की बिखरी हुई ग्रंथ सूची के आयोजन में।
4. ✘ in organising the scattered results drawn after the rigorous literature review.  
कठोर साहित्य समीक्षा के बाद निकाले गए बिखरे परिणामों को व्यवस्थित करने में।

**Question Number : 31 Question Id : 50939812453 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

The conclusions/findings of which type of research can *not* be generalized to other situations ?

किस प्रकार के शोध के निष्कर्ष को दूसरी परिस्थितियों में सामान्यीकृत **नहीं** किया जा सकता है ?

Options :

1. ✘ Casual Comparative Research  
कारणात्मक तुलनात्मक शोध

2. ✘ Historical Research  
ऐतिहासिक शोध

3. ✔ Descriptive Research  
विवरणात्मक शोध

4. ✘ Experimental Research  
प्रायोगिक शोध

Question Number : 32 Question Id : 50939812454 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one is called non-probability sampling ?

निम्नलिखित में से कौन गैर-प्रायिकता प्रतिचयन कहा जाता है ?

Options :

1. ✔ Quota sampling  
कोटा प्रतिचयन

2. ✘ Cluster sampling  
गुच्छ प्रतिचयन

3. ✘ Systematic sampling  
सुनियोजित/व्यवस्थित प्रतिचयन

4. ✘ Stratified random sampling  
स्तरित यादृच्छिक प्रतिचयन

**Question Number : 33 Question Id : 50939812455 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

In an experimental design, the dependent variable is :

एक प्रयोगात्मक प्रारूप में निर्भर चर वो होता है जिसे/जिसमें :

**Options :**

The one that is not manipulated and in which any changes are observed

कोई परिवर्तन/छेड़छाड़ नहीं की जाती और जिसमें होने वाले परिवर्तन की समीक्षा की जाती है।

1. ✓

The one that is manipulated in order to observe any effects on the other

परिवर्तन किया जाता है जिससे दूसरों में होने वाले परिवर्तन की समीक्षा की जाए।

2. ✖

A measure of the extent to which personal values affect research

किस प्रकार व्यक्तिगत मूल्य शोध को प्रभावित करते हैं उसके मापक के रूप में प्रयोग किया जाता है।

3. ✖

An ambiguous concept whose meaning depends on how it is defined

एक अस्पष्ट अवधारणा माना जा सकता है जिसका अर्थ इस पर निर्भर करता है कि उसे कैसे परिभाषित किया जाए।

4. ✖

**Question Number : 34 Question Id : 50939812456 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

When a group of people with defined characteristics are followed up to determine incidence is known as :

घटना को निर्धारित करने के लिए परिभाषित विशेषताओं वाले लोगों के समूह को निम्न प्रकार से जाना जाता है :

**Options :**

Case series

केस सीरीज

1. ✖

2. ✓ Cohort  
कोहोर्ट

3. ✘ Case control  
केस नियंत्रण

4. ✘ Experimental  
प्रायोगिक

**Question Number : 35 Question Id : 50939812457 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

In the process of conducting research, formulation of hypothesis is followed by :  
अनुसंधान संचालन की प्रक्रिया में, उपकल्पना निर्माण का अनुसरण करता है :

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

**Options :**

Statement of objectives  
उद्देश्यों का कथन  
1.

Collection of data  
तथ्यों का संकलन  
2.

Analysis of data  
तथ्यों का विश्लेषण  
3.

Selection of research tools  
अनुसंधान यंत्रों का चयन  
4.

**Question Number : 36 Question Id : 50939812458 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

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

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following features are considered as critical in qualitative research ?  
निम्नलिखित में से कौन-सी विशेषतायें गुणात्मक शोध के लिए महत्वपूर्ण मानी जाती हैं ?

**Options :**

- Collecting data with the help of standardized research tools.
1. ✘ मानकित शोध साधनों के के सहयोग से आंकड़ों का संग्रहण
- Design sampling with probability sample techniques.
2. ✘ प्रायिकता प्रतिचयन तकनीकों के प्रयोग द्वारा प्रतिचयन प्रारूप का निर्धारण
- Collecting data with bottom-up empirical evidence.
3. ✔ ऊर्ध्वगामी आनुभविक साक्ष्यों के प्रयोग से आंकड़ों का संग्रहण
- Gathering data with top-down schematic evidence.
4. ✘ शीर्ष-पाद योजनाबद्ध साक्ष्यों के प्रयोग से आंकड़ों का संग्रहण

**Question Number : 37 Question Id : 50939812459 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Among 25000 individual in a city, 105 were indentified with Covid-19 positive. Calculate the prevalence of Covid-19 per 1000 population.  
एक शहर में 25000 व्यक्तियों में, 105 कोविड-19 सकारात्मक के साथ इडेंट किए गए थे। प्रति 1000 जनसंख्या पर कोविड-19 की व्यापकता की गणना करें।

**Options :**

1. ✘ 5.2
2. ✔ 4.2
3. ✘ 3.2
4. ✘ 2.2



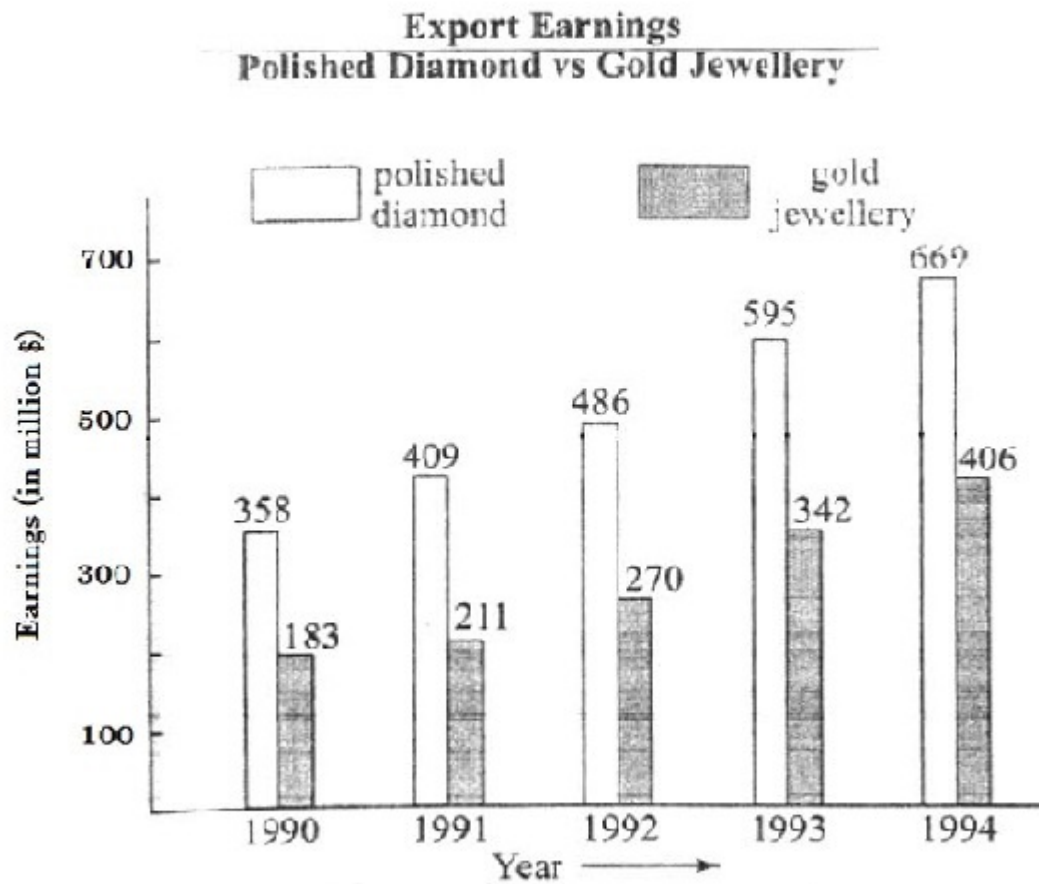
Question Number : 38 Question Id : 50939812460 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The following multiple bar chart shows the export earnings from polished diamonds and gold jewellery. Study the chart and answer the question :

निम्नलिखित बहु बार चार्ट पालिशड डीरे और सोने के आभूषणों से निर्यात आय को दर्शाता है। चार्ट का अध्ययन करें और दिए गए प्रश्न का उत्तर दें :



What was average earning from gold jewellery over 1990 to 1994 ?  
1990 से 1994 तक स्वर्ण आभूषण से औसत प्राप्ति क्या थी ?

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

Options :

- 503.4 Million
- 503.4 मिलियन

- 501.6 Million  
2. 501.6 मिलियन
- 500 Million  
3. 500 मिलियन
- 510 Million  
4. 510 मिलियन

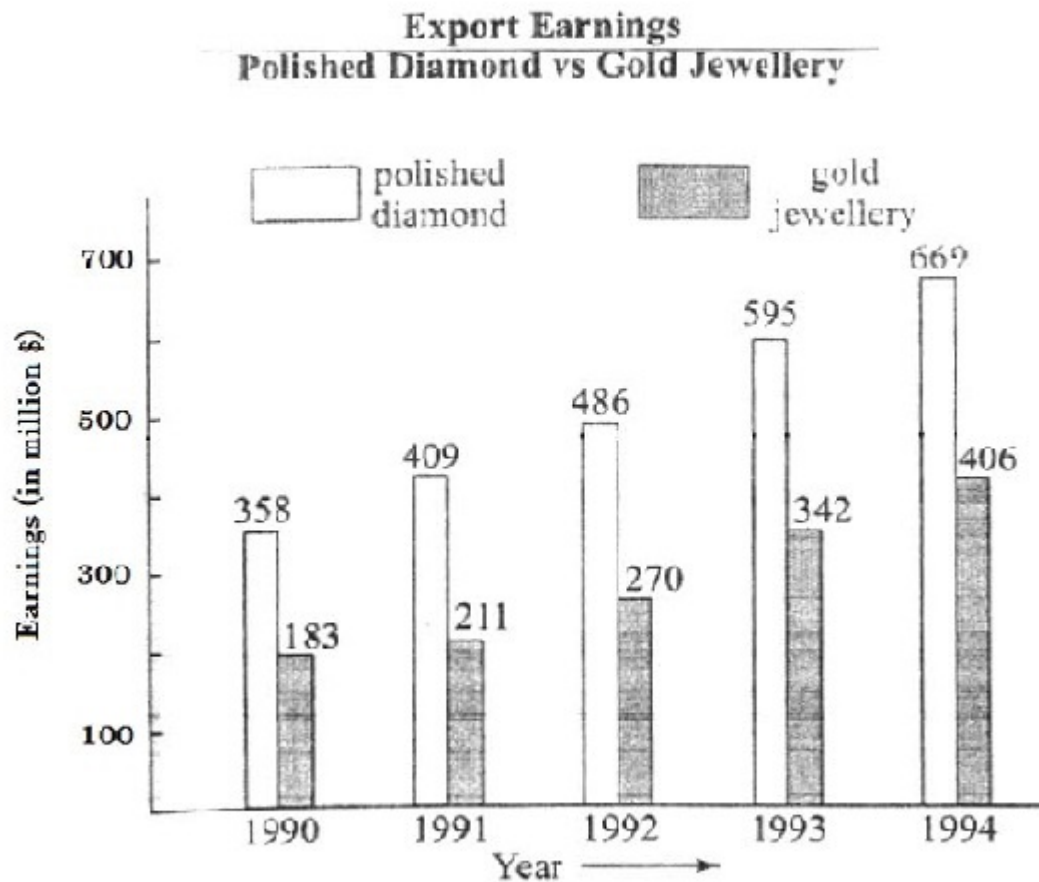
**Question Number : 39 Question Id : 50939812461 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

The following multiple bar chart shows the export earnings from polished diamonds and gold jewellery. Study the chart and answer the question :

निम्नलिखित बहु बार चार्ट पालिशड हीरे और सोने के आभूषणों से निर्यात आय को दर्शाता है। चार्ट का अध्ययन करें और दिए गए प्रश्न का उत्तर दें :



In which year the difference of export earning of two types of jewellery is maximum ?  
किस वर्ष में दो आभूषणों के निर्यात प्राप्ति का अन्तर अधिकतम था ?

Options :

1. ✓ 1994

2. ✘ 1993

3. ✘ 1991

4. ✘ 1992

**Question Number : 40 Question Id : 50939812462 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

*Directions* : Study the following table and answer the question given :

Production of different types of scooters in a company

*निर्देश* : निम्नलिखित तालिका का अध्ययन करें और दिए गए प्रश्न का उत्तर दें :  
एक कंपनी में विभिन्न प्रकार के स्कूटर का उत्पादन

Figures in '000

Year	Type of scooters				
	A	B	C	D	E
1992	180	60	84	100	76
1993	210	90	32	80	48
1994	135	30	44	95	85
1995	190	85	69	125	115
1996	260	95	120	80	120
1997	240	140	161	90	185

What was the approximate percentage of production of A-type scooters in 1995 to its total production over the years ?

1995 में A-टाइप के स्कूटरों के उत्पादन का अनुमानित प्रतिशत इसके कुल उत्पादन से कितना था ?

**Options :**

1. ✘ 20

2. ✓ 15

3. ✘ 23

## Subject\_&\_Area Concerned

Section Id :	509398143
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	60
Number of Questions to be attempted :	60
Section Marks :	180
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	509398170
Question Shuffling Allowed :	Yes

**Question Number : 41 Question Id : 50939812463 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which one of the following term given by G. A. Olah ?

**Options :**

1. ✖ Carbocation
2. ✖ Carbonium ion
3. ✓ Carbenium ion
4. ✖ None of the three

**Question Number : 42 Question Id : 50939812464 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which one of the following compound gives ketone on reaction with  $\text{NaNO}_2 \cdot \text{HCl}$  at  $0-5^\circ\text{C}$  ?

Options :



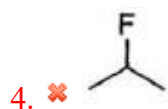
Question Number : 43 Question Id : 50939812465 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which on the following compound will give haloform test ?

Options :



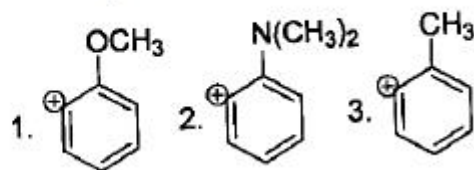
Question Number : 44 Question Id : 50939812466 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

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

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Arrange the correct order of stability :



Options :

1. ✓  $1 < 2 < 3$

2. ✗  $2 < 3 < 1$

3. ✗  $3 < 2 < 1$

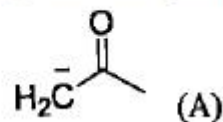
4. ✗  $1 < 2 = 3$

Question Number : 45 Question Id : 50939812467 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What will be the hybridization in the given compound (A) .. ?



Options :

1. ✗  $sp^3$

2. ✗  $sp^2/p$

3. ✓  $sp^2$

4. ✗  $sp$

Question Number : 46 Question Id : 50939812468 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Correct order of stability in given carbanion.



Options :

1. ✘  $1 > 2 > 3$

2. ✔  $1 > 3 > 2$

3. ✘  $3 > 2 > 1$

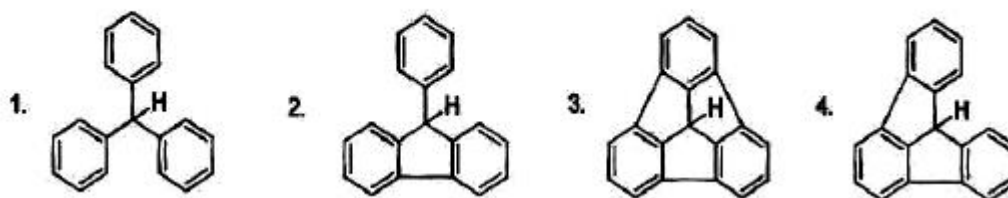
4. ✘  $2 > 3 > 1$

Question Number : 47 Question Id : 50939812469 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Correct order of acidity.



Options :

1. ✘  $1 > 3 > 2 > 4$

2. ✘  $2 > 3 > 1 > 4$

3. ✘  $4 > 2 > 1 > 3$

4. ✓  $3 > 4 > 2 > 1$

**Question Number : 48 Question Id : 50939812470 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which type of radiation use in Mass Spectrometry ?

**Options :**

1. ✘ Gamma radiation
2. ✘ Microwave radiation
3. ✘ UV - radiation
4. ✓ None of the three

**Question Number : 49 Question Id : 50939812471 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following statement is false for mass spectroscopy ?

**Options :**

1. ✘ Mass spectroscopy is used to identify unknown compounds within a sample, and to elucidate the structure and chemical properties of different molecules
2. ✘ Particles are characterized by their mass to charge ratios ( $m/z$ ) and relative abundances
3. ✘ This technique basically studies the effect of ionizing energy on molecules
4. ✓ This technique can be used on all state of matter



Question Number : 50 Question Id : 50939812472 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

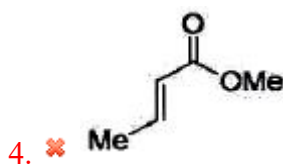
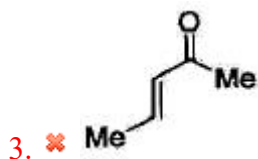
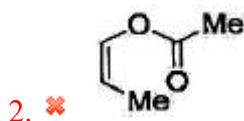
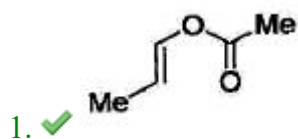
An organic compound Q exhibited the following spectral data.

IR:  $1760\text{ cm}^{-1}$

$^1\text{H}$ NMR : chemical reference (ppm) : 7.2 (1H, d, 16.0 Hz), 5.1 (1H, m), 2.1 (3H, s), 1.8 (3H, d,  $J = 7.0\text{ Hz}$ )

$^{13}\text{C}$ NMR chemical reference (ppm) : 170 (carbonyl carbon). What is compound Q ?

Options :



Question Number : 51 Question Id : 50939812473 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following species is used to bombard the sample for which mass spectroscopy has been performed ?

Options :



2. ✖ Neutrons

3. ✔ Electrons

4. ✖ Protons

**Question Number : 52 Question Id : 50939812474 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

A PMR spectrometer operates at 300 MHz's. Find the value of magnetic field.

Given :  $g_N = 5.585$  and  $B_N = 5.05 \times 10^{-27} \text{ JT}^{-1}$

Options :

1. ✔ 7.05 T

2. ✖ 6.38 T

3. ✖ 7.58 T

4. ✖ 5.93 T

**Question Number : 53 Question Id : 50939812475 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

What is the order of decreasing vibration frequency for C – Cl, C – Br, C – C, C – O and C – H ?

Options :

1. ✔ C–H, C–C, C–O, C–Cl, C–Br

2. ✖ C–Cl, C–Br, C–C, C–H, C–O

3. ✖ C–O, C–H, C–Br, C–Cl, C–C

4. ✖ C–Br, C–Cl, C–C, C–O, C–H

Question Number : 54 Question Id : 50939812476 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Why ketenes absorb in IR at a very high frequency ( $2150\text{ cm}^{-1}$ ) ?

Options :

1. ✖ The inner C is  $sp$  hybridized

2. ✖ The more  $s$  character in a bond, the stronger it is

3. ✔ Inner C is  $sp^2$  hybridized

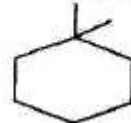
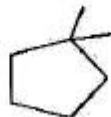
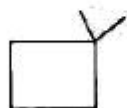
4. ✖ Inner C is  $sp^3$  hybridized

Question Number : 55 Question Id : 50939812477 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What will be the strength of coupling between geminal protons in the following molecules ?



Options :

1. ✖ Decrease as the size of ring increase

2. ✔ Increase as the size of ring increase

3. ✘ Remains same
4. ✘ No relation between the size of the ring & coupling

**Question Number : 56 Question Id : 50939812478 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

How many peaks are expected in low-resolution NMR spectrum of vinyl chloride and ethyl cyclopropane ?

Options :

1. ✔ 3, 5
2. ✘ 5, 3
3. ✘ 6, 3
4. ✘ 3, 6

**Question Number : 57 Question Id : 50939812479 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Method of study of Drug Distribution pattern is :

Options :

1. ✘ Mass Spectrophotometry
2. ✘ UV-visible Spectrophotometry
3. ✘ Nuclear Magnetic Resonance

4. ✓ Fluorimetry

**Question Number : 58 Question Id : 50939812480 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1 Question Label : Multiple Choice Question**

Dimethyl sulfoxide acts as penetration enhancer for topical formulations by

**Options :**

1. ✘ Increasing solubility
2. ✘ Altering solvent nature of membrane
3. ✘ Increasing transepidermal loss
4. ✓ Denaturing proteins

**Question Number : 59 Question Id : 50939812481 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1 Question Label : Multiple Choice Question**

While studying solid state physicochemical properties, the packing property of drug include ?

**Options :**

1. ✘ Solubility
2. ✘ Refractive Index
3. ✓ Heat Capacity
4. ✘ Entropy

**Question Number : 60 Question Id : 50939812482 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following is an invert sugar ?

**Options :**

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

**Question Number : 61 Question Id : 50939812483 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Increasing the proportion of the disperse phase of an emulsion by more than 60% may lead to :

**Options :**

1. ✔ Phase inversion
2. ✘ Creaming
3. ✘ Frothing
4. ✘ Cracking

**Question Number : 62 Question Id : 50939812484 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Choose the wrong statement from the following with regard to amorphous solids :

Options :

1. ✘ Considered as super cooled liquids
2. ✘ They tend to flow when subjected to sufficient pressure
3. ✘ Usually they are anisotropic
4. ✔ They do not have definite melting point

**Question Number : 63 Question Id : 50939812485 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following powder shows the greatest degree of Dustability ?

Options :

1. ✔ Talcum powder
2. ✘ Potato starch
3. ✘ Fine Charcoal
4. ✘ Lycopodium Powder

**Question Number : 64 Question Id : 50939812486 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

If two monosaccharides differ in their structure around a single carbon atom, they are called :

Options :

1. ✘ Trioses
2. ✘ Dimers
3. ✔ Epimers
4. ✘ Trimers

**Question Number : 65 Question Id : 50939812487 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

A compound will be sensitive towards IR radiation only when one of the following properties undergo transition on irradiation :

**Options :**

1. ✘ Polarizability
2. ✘ Dielectric Constant
3. ✔ Dipole moment
4. ✘ Refractivity

**Question Number : 66 Question Id : 50939812488 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Among the following which one is *not* only a non-reducing sugar but also does not exhibit mutarotation ?

**Options :**

1. ✘ Glucose



2. ✘ Maltose

3. ✘ Lactose

4. ✔ Sucrose

**Question Number : 67 Question Id : 50939812489 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Choose the basic heterocyclic compound among the followings :

**Options :**

1. ✘ Pyridine

2. ✘ Imidazole

3. ✘ Pyrrole

4. ✔ Pyrrolidine

**Question Number : 68 Question Id : 50939812490 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Electrophillic aromatic substitution reactions in Indole give one of the following products preferably. Identify that :

**Options :**

1. ✔ 3-substituted Indole

2. ✘ 2-substituted Indole

3. ✘ 5-substituted Indole

4. ✖ 6-substituted Indole

**Question Number : 69 Question Id : 50939812491 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Parachor and Molar refraction can be categorized under one of the following properties. Identify that :

**Options :**

1. ✖ Additive properties
2. ✖ Constitutive properties
3. ✖ Colligative properties
4. ✔ Additive and constitutive property

**Question Number : 70 Question Id : 50939812492 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

In polarography, when the limiting current is achieved, one of the following processes takes place. Choose that :

**Options :**

1. ✖ The rate of electron transfer just matches the rate of mass transfer
2. ✖ The rate of electron transfer is slower than the rate of mass transfer
3. ✔ The rate of electron transfer becomes independent of the rate of mass transfer
4. ✖ The rate of electron transfer far exceeds the rate of mass transfer

**Question Number : 71 Question Id : 50939812493 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which one of the followings is *not* used in preparation of baby powders ?

Options :

1. ✘ Stearic acid
2. ✔ Boric acid
3. ✘ Kaolin
4. ✘ Calcium carbonate

**Question Number : 72 Question Id : 50939812494 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which one of the following properties is characteristic of micro-emulsions ?

Options :

1. ✔ These are transparent systems with droplet size less than 1 MICRO METER
2. ✘ These are transparent systems with droplet size less than 10 MICRO METER
3. ✘ These are non-transparent systems with droplet size less than 1 MICRO METER
4. ✘ These are non-transparent systems with droplet size less than 10 MICRO METER

**Question Number : 73 Question Id : 50939812495 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which one of the following colours is *not* permitted to be used in drugs by the Drugs and Cosmetics Act, 1940 ?

**Options :**

1. ✘ Chlorophyll
2. ✘ Riboflavin
3. ✘ Tartrazine
4. ✔ Amaranth

**Question Number : 74 Question Id : 50939812496 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

At equal concentrations which one of the following mucilages will possess maximum viscosity ?

**Options :**

1. ✘ Maize starch
2. ✘ Rice starch
3. ✘ Wheat starch
4. ✔ Potato starch

**Question Number : 75 Question Id : 50939812497 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Based on the DLVO theory of force of interaction between colloidal particles, which one of the followings lead to attractive interaction between two particles ?

Options :

1. ✘ Solvation forces
2. ✘ Electrostatic forces
3. ✔ Van der Waals forces
4. ✘ Steric forces

Question Number : 76 Question Id : 50939812498 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The B-group vitamins generally function as :

Options :

1. ✘ Emulsifiers
2. ✔ Co-enzymes
3. ✘ Reducing agents
4. ✘ Antioxidants

Question Number : 77 Question Id : 50939812499 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

During the starvation state, the ketone body is produced from :

Options :

1. ✘ Glycogen
2. ✔ Acetyl CoA
3. ✘ Pyruvate
4. ✘ Glucose

**Question Number : 78 Question Id : 50939812500 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which type of chromatography can separate proteins based on the enzyme-substrate binding ?

**Options :**

1. ✔ affinity chromatography
2. ✘ ion-exchange chromatography
3. ✘ size-exclusion chromatography
4. ✘ thin-layer chromatography

**Question Number : 79 Question Id : 50939812501 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Analysis of an unknown infectious agent shows that it contains only the nucleotides G (29%), A (34%), U (16%) and C (21%). This infectious agent is most likely a :

**Options :**

1. ✘ double-stranded DNA virus

2. ✘ virus containing a DNA/RNA hybrid
3. ✔ single-stranded RNA virus
4. ✘ single-stranded DNA virus

**Question Number : 80 Question Id : 50939812502 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following chromosomal changes is not responsible for the position-effect variegation of a gene ?

**Options :**

1. ✘ Transposition
2. ✘ Translocation
3. ✘ Deletion
4. ✔ Polyploidization

**Question Number : 81 Question Id : 50939812503 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

The class of lipoproteins that is protective against atherosclerosis is :

**Options :**

1. ✘ low-density lipoproteins
2. ✘ very-low-density lipoproteins
3. ✔ high-density lipoproteins

4. ✘ chylomicrons

**Question Number : 82 Question Id : 50939812504 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Choose the group containing only the peptide hormones :

**Options :**

1. ✘ Vasopressin, oxytocin, epinephrine
2. ✘ Vasopressin, testosterone, glycogen
3. ✘ Oxytocin, vasopressin, thyroxine
4. ✔ Oxytocin, vasopressin, somatostatin

**Question Number : 83 Question Id : 50939812505 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

The rate-limiting step in cholesterol biosynthesis is :

**Options :**

1. ✔ HMG CoA formation
2. ✘ Farnesyl Pyrophosphate formation
3. ✘ Squalene formation
4. ✘ Mevalonate formation

**Question Number : 84 Question Id : 50939812506 Question Type : MCQ Option Shuffling : Yes Is**



**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

In the Lineweaver-Burk double reciprocal plot, the vertical intercept is equal to ?

Options :

1. ✘  $1/[S]$
2. ✘  $1/V$
3. ✘  $K_m/V_{\max}$
4. ✔  $1/V_{\max}$

**Question Number : 85 Question Id : 50939812507 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following metabolic process occurs in the mitochondria ?

Options :

1. ✔ Beta oxidation of fatty acids
2. ✘ Cholesterol synthesis
3. ✘ Fatty acid synthesis
4. ✘ Glycolysis

**Question Number : 86 Question Id : 50939812508 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

All of the following are the characteristics of the structure of the virus, EXCEPT :

**Options :**

1. ✘ Virus consists of either DNA or RNA genome
2. ✔ The outer layer of all viruses consists of a lipid membrane
3. ✘ The capsid of the viruses is made up of protein
4. ✘ The size of viruses may range from 18 nm to 300 nm

**Question Number : 87 Question Id : 50939812509 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following is the end product of purines metabolism in humans ?

**Options :**

1. ✘ Xanthine
2. ✔ Uric acid
3. ✘ Urea
4. ✘ Allantoin

**Question Number : 88 Question Id : 50939812510 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following RNA serves the regulatory functions including splicing, gene silencing ?

**Options :**

1. ✘ mRNA

2. ✘ tRNA
3. ✘ rRNA
4. ✔ small RNA

**Question Number : 89 Question Id : 50939812511 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

In a study, which cells are found in COVID-19 patients 'bode well' for long term immunity ?

**Options :**

1. ✘ P-cell
2. ✘ D-Cell
3. ✔ T-Cell
4. ✘ Endothelial Cells

**Question Number : 90 Question Id : 50939812512 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Name the vaccine that is jointly developed by the German company BioNTech and US pharma giant Pfizer for COVID-19 ?

**Options :**

1. ✔ BNT162
2. ✘ PICOVACC

3. ✖ Both BNT162 and PICOVACC
4. ✖ Neither BNT162 nor PICOVACC

**Question Number : 91 Question Id : 50939812513 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following statement is *not* true about the important properties of Corona virus ?

**Options :**

1. ✔ Non-Enveloped RNA virus
2. ✖ Enveloped RNA virus
3. ✖ Distributed around the world
4. ✖ Can spread from person to person

**Question Number : 92 Question Id : 50939812514 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Rancidity of lipid rich food stuffs is due to :

**Options :**

1. ✖ Hydrogenation of Unsaturated fatty acids
2. ✖ Reduction of fatty acids
3. ✔ Oxidation of fatty acids

#### 4. ✖ Dehydrogenation of saturated fatty acids

**Question Number : 93 Question Id : 50939812515 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Polenske value of fatty acid indicates .....

**Options :**

1. ✖ How much unsaturation is there in the fatty acid
2. ✖ Level of saturation in the fatty acid
3. ✖ Indication of branching of fatty acid in the fat
4. ✔ How much volatile fatty acid can be extracted through saponification

**Question Number : 94 Question Id : 50939812516 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Naturally occurring fats are :

**Options :**

1. ✔ L types
2. ✖ D types
3. ✖ An equi-molar mixture of L and D types
4. ✖ Symmetric

**Question Number : 95 Question Id : 50939812517 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

How many types of signal transducers are there ?

Options :

1. ✘ 3

2. ✘ 4

3. ✘ 5

4. ✔ 6

**Question Number : 96 Question Id : 50939812518 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following is a nuclear receptor protein ?

Options :

1. ✔ Steroid receptor

2. ✘ Adhesion receptor

3. ✘ Serpentine receptor

4. ✘ Receptor with no intrinsic enzyme activity

**Question Number : 97 Question Id : 50939812519 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

Which of the following enzymes are used as a marker for the Lysosomes ?

Options :

1. ✘ Phospholipase
2. ✔ Acid phosphatase
3. ✘ Pyruvate dehydrogenase
4. ✘ Succinate dehydrogenase

Question Number : 98 Question Id : 50939812520 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following cells contain the most active lysosomes ?

Options :

1. ✘ Skin cells
2. ✘ Brain cells
3. ✘ Intestinal cells
4. ✔ White blood cells

Question Number : 99 Question Id : 50939812521 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

With respect to how miRNAs work, which, if any, of the following statements, is false ?

Options :

1. ✘

An miRNA is initially composed of two RNA strands, a messenger strand that will be destroyed and a complementary RNA, the guide strand, that is required for it to work.

2. ✘ An active miRNA regulates target protein-coding genes by binding to complementary sequences in the mRNA
3. ✔ A single miRNA normally binds to transcripts from just one target gene
4. ✘ A single type of mRNA can be regulated by multiple different miRNAs.

**Question Number : 100 Question Id : 50939812522 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes**

**Correct Marks : 3 Wrong Marks : 1**

Question Label : Multiple Choice Question

With respect to histone modifications, which, if any, of the following statements, is true ?

**Options :**

1. ✔ histone acetylation always means adding an acetyl group to the side chain of a lysine residue.
2. ✘ in histone acetylation each lysine of the histone is acetylated.
3. ✘ in histone phosphorylation a phosphate group is transferred to the side chain of a serine.
4. ✘ in histone methylation it is the DNA that coils around a nucleosome that is methylated, not the histone itself.