

# Banaras Hindu University

## Notations :

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

Question Paper Name :	891 11th April 2021 Shift 2
Subject Name :	891
Creation Date :	2021-04-11 19:03:33
Duration :	120
Total Marks :	300
Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console?	No
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

## RET\_Geophysics

Group Number :	1
Group Id :	509398158
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	300
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

## Research\_Methodology

Section Id :	509398254
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 :	509398281
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 50939818023 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 : 50939818024 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 : 50939818025 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
4.  None of the three  
तीनों में से कोई नहीं

Question Number : 4 Question Id : 50939818026 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 : 50939818027 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
3.  General to Particular  
सामान्य से विशेष
4.  Particular to Particular  
विशेष से विशेष

Question Number : 6 Question Id : 50939818028 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 :

1.  Convenience Sampling  
सुविधा प्रतिचयन
2.  Snowball Sampling  
स्नोबॉल प्रतिचयन
3.  Cluster Sampling  
समूह प्रतिचयन
4.  Stratified Sampling  
स्तरीकृत प्रतिचयन

Question Number : 7 Question Id : 50939818029 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 : 50939818030 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 : 50939818031 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 :

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

Question Number : 10 Question Id : 50939818032 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 सिनोपसिस का डेटाबेस
- 4. ✘ Database of experts  
विशेषज्ञों का डेटाबेस

Question Number : 11 Question Id : 50939818033 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 :

In this methods, each unit has equal chance to be selected.

1. इस पद्धति में प्रत्येक इकाई के चयनित होने का समान अवसर होता है।

Each sample has equal chance of selection.

2. प्रत्येक प्रतिदर्श के चयन की सम्भावना समान होती है।

It is free from personal prejudices and bias

3. यह व्यक्तिगत पूर्वधारणाओं और पक्षपातों से रहित होता है।

This method is very simple to use

4. यह पद्धति प्रयोग करने में बेहद आसान है।

**Question Number : 12 Question Id : 50939818034 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 : 50939818035 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 को-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
4. ✘ Pragmatic Approach  
यथार्थवादी दृष्टिकोण

**Question Number : 14 Question Id : 50939818036 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 : 50939818037 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

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

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

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

Question Number : 16 Question Id : 50939818038 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 :

1. ✘ Replication, randomization and Substitution  
रिप्लिकेशन, रैन्डोमाइजेशन एवं सब्स्टीट्यूशन
2. ✔ Replication, randomization, and local control  
रिप्लिकेशन, रैन्डोमाइजेशन एवं लोकल कन्ट्रोल
3. ✘ Substitution, replication and local control  
सब्स्टीट्यूशन, रिप्लिकेशन एवं लोकल कन्ट्रोल
4. ✘ Substitution, randomization and local control  
सब्स्टीट्यूशन, रैन्डोमाइजेशन एवं लोकल कन्ट्रोल

Question Number : 17 Question Id : 50939818039 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 : 50939818040 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 : 50939818041 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 : 50939818042 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 :

1. ✘ Applications of the findings of the research study.  
शोध अध्ययन के निष्कर्षों के अनुप्रयोग के आधार पर।
2. ✔ Objectives of the research study.  
शोध अध्ययन के उद्देश्य के आधार पर।
3. ✘ Mode of enquiry used in conducting the study.  
अध्ययन के संचालन में उपयोग की जाने वाली जांच के तरीके के आधार पर।
4. ✘ Outcome of the research.  
शोध के परिणाम के आधार पर।

Question Number : 21 Question Id : 50939818043 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 :

1. ✘ Disguised Observation  
प्रच्छन्न अवलोकन
2. ✔ Participant Observation  
प्रतिभागी अवलोकन

Non-Participant Observation

3. ✘ गैर-प्रतिभागी अवलोकन

Self Recording Observation

4. ✘ स्वयं रिकॉर्डिंग अवलोकन

**Question Number : 22 Question Id : 50939818044 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 (विधियों) 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 स्टैण्डर्ड 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 : 50939818045 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
1. ✘ के माध्य (mean) के बीच कोई सांख्यिकीय महत्वपूर्ण अंतर है
- 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
2. ✘ कोई सांख्यिकीय महत्वपूर्ण अंतर है
- 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
3. ✔ (mean) के बीच कोई सांख्यिकीय महत्वपूर्ण अंतर है या नहीं

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

4. ✖ mean) के बीच कोई सांख्यिकीय महत्वपूर्ण अन्तर है या नहीं

**Question Number : 24 Question Id : 50939818046 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 : 50939818047 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 : 50939818048 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-प्लेजियरिज्म सॉफ्टवेयर हैं :

- (a) Urkund  
उरकुंड
- (b) Overleaf  
ओवरलीफ
- (c) Turnitin  
टर्नटिन
- (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 : 50939818049 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 :**

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

**Question Number : 28 Question Id : 50939818050 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 ?

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

Options :

Root mean & square deviation

1. ✖ मूल माध्य और वर्ग विचलन

Mean deviation

2. ✖ माध्य विचलन

Quartile deviation

3. ✔ चतुर्थक विचलन

Standard deviation

4. ✖ मानक विचलन

Question Number : 29 Question Id : 50939818051 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 :

Coefficient of alienation

1. ✖ परकीयकरण का गुणांक

Coefficient of variation

2. ✖ भिन्नता का गुणांक

Coefficient of determination

3. ✔ दृढ़ संकल्प का गुणांक

Coefficient of non-determination

4. ✖ गैर-निर्धारण का गुणांक

Question Number : 30 Question Id : 50939818052 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 :

to show visually how two variables are covering

1. ✔ नेत्रहीन दिखाने के लिए कि दो चर कैसे ढकते हैं

in organising the scattered footnotes of the research.

2. ✖ शोध के बिखरे पांवों को व्यवस्थित करने में।

in organising the scattered bibliography of the research.

3. ✖ शोध की बिखरी हुई ग्रंथ सूची के आयोजन में।

in organising the scattered results drawn after the rigorous literature review.

4. ✖ कठोर साहित्य समीक्षा के बाद निकाले गए बिखरे परिणामों को व्यवस्थित करने में।

Question Number : 31 Question Id : 50939818053 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 : 50939818054 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 : 50939818055 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 :

1. ✔ 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।

2. ✘ 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।

3. ✘ 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।

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

4. ✖ कि उसे कैसे परिभाषित किया जाए।

**Question Number : 34 Question Id : 50939818056 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 :**

1. ✖ Case series  
केस सीरीज

2. ✔ Cohort  
कोहोर्ट

3. ✖ Case control  
केस नियंत्रण

4. ✖ Experimental  
प्रायोगिक

**Question Number : 35 Question Id : 50939818057 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 :**

1. Statement of objectives  
उद्देश्यों का कथन

2. Collection or data  
तथ्यों का संकलन

3. Analysis of data  
तथ्यों का विश्लेषण

4. Selection of research tools  
अनुसंधान यंत्रों का चयन

**Question Number : 36 Question Id : 50939818058 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 विशेषताये गुणात्मक शोध के लिए महत्वपूर्ण मानी जाती है ?

**Options :**

- Collecting data with the help of standardized research tools.
1. ✘ मानकित शोध साधनों के के सहयोग से आंकड़ों का संग्रहण
  2. ✘ प्रायिकता प्रतिचयन तकनीकों के प्रयोग द्वारा प्रतिचयन प्रारूप का निर्धारण
  3. ✔ ऊर्ध्वगामी आनुभविक साक्ष्यों के प्रयोग से आंकड़ों का संग्रहण
  4. ✘ शीर्ष-पाद योजनाबद्ध साक्ष्यों के प्रयोग से आंकड़ों का संग्रहण

**Question Number : 37 Question Id : 50939818059 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 :**

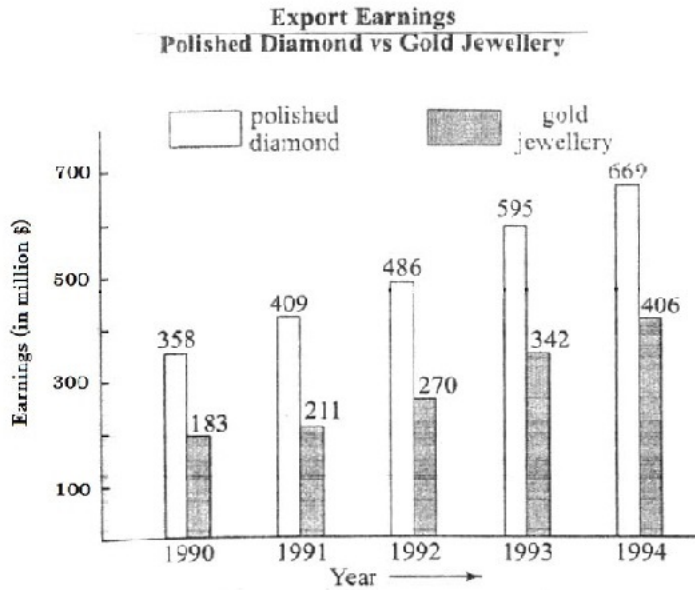
1. ✘ 5.2
2. ✔ 4.2
3. ✘ 3.2
4. ✘ 2.2

**Question Number : 38 Question Id : 50939818060 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 प्राप्त क्या थी ?

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

**Options :**

1. 503.4 Million  
503.4 मिलियन
2. 501.6 Million  
501.6 मिलियन
3. 500 Million  
500 मिलियन
4. 510 Million  
510 मिलियन

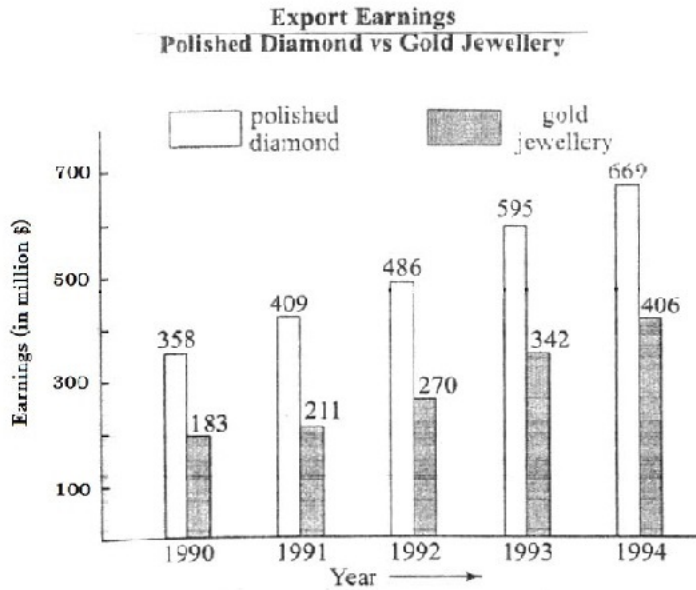
**Question Number : 39 Question Id : 50939818061 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval 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 पॉलिश डीरे 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 : 50939818062 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

4. ✖ 40

### Subject\_ & Area Concerned

Section Id :	509398255
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 :	509398282
Question Shuffling Allowed :	Yes

Question Number : 41 Question Id : 50939818063 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 oxygen rich, dense, deep seawater is formed at

Options :

1. ✖ equator

2. ✓ high latitudes

3. ✖ mid-latitudes

4. ✖ anywhere it can form

Question Number : 42 Question Id : 50939818064 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 ocean currents is found in the Northern Hemisphere?

Options :

1. ✖ Canary current

2. ✖ Oyashio current

Falklands current

3. ✓

Gulf stream

4. ✖

Question Number : 43 Question Id : 50939818065 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

Rise in sea surface temperature during El Nino year occur over

Options :

East Pacific Ocean

1. ✓

Atlantic Ocean

2. ✖

West Pacific Ocean

3. ✖

Indian Ocean

4. ✖

Question Number : 44 Question Id : 50939818066 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 El Nino, thermocline in the Eastern Pacific

Options :

becomes shallower

1. ✖

deepens

2. ✓

no change in the depth occurs

3. ✖

depth may increase or decrease

4. ✖

Question Number : 45 Question Id : 50939818067 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

Sea level rising is associated with

Options :

heavy precipitation

1. ✖

2. ✖ severe cyclone

3. ✖ El Nino

4. ✔ climate change

Question Number : 46 Question Id : 50939818068 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 Western Disturbances (WD) cold wave occur at

Options :

1. ✖ front sector

2. ✔ rear sector

3. ✖ front and rear sectors both

4. ✖ cold wave is not related with WD

Question Number : 47 Question Id : 50939818069 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Identify the correct statement

Options :

1. ✖ Southern oscillation index is negatively correlated to the SW Monsoon

2. ✔ Southern oscillation index is positively correlated to the SW Indian ]

3. ✖ Both positive and negative correlation may exist

4. ✖ No correlation exists

Question Number : 48 Question Id : 50939818070 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

## Mid-Tropospheric Circulation (MTC) during Summer Monsoon seas over

Options :

1. ✖ Bay of Bengal
2. ✖ South China Sea
3. ✔ Arabian Sea
4. ✖ Southern part of Indian Ocean near Madagascar

Question Number : 49 Question Id : 50939818071 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

## Maximum rainfall during NE Monsoon in India occur in the State

Options :

1. ✔ Tamil Nadu
2. ✖ Rajasthan
3. ✖ Gujarat
4. ✖ Maharashtra

Question Number : 50 Question Id : 50939818072 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

## Southern oscillation is associated with the pressure oscillation stations of

Options :

1. ✖ Azores high and Icelandic low
2. ✔ Pacific Ocean and the Indian Ocean
3. ✖ North Pacific high and Aleutian low
4. ✖ Atlantic Ocean and the Indian Ocean

Question Number : 51 Question Id : 50939818073 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

Occluded front consists of

Options :

1. ✖ one warm air mass and one cold air mass
2. ✖ two warm air masses and a cold air mass
3. ✔ two cold air masses and a warm air mass
4. ✖ two warm air masses and two cold air masses

Question Number : 52 Question Id : 50939818074 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

Walker circulation is associates with

Options :

1. ✖ North-South circulation
2. ✔ East-West circulation along the equator
3. ✖ Mid-latitude circulation
4. ✖ Anticyclonic circulation over Tibet Region

Question Number : 53 Question Id : 50939818075 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 Inter-Tropical Convergence Zone (ITCZ) during the month of \_\_\_\_\_ is more dominant over \_\_\_\_\_

Options :

1. ✖ Indo-China Region
2. ✖ North Africa and Eurasia Regions

3. ✖ East Asia and North America

4. ✔ South America and Australia

Question Number : 54 Question Id : 50939818076 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

3-7 days and 10-20 days oscillation are associated with

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

Options :

1. excess rainfall over India
2. deficient rainfall over India
3. normal rainfall over India
4. excess rainfall over State of Tamil Nadu

Question Number : 55 Question Id : 50939818077 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 granite layer in the crust is also referred to as

Options :

1. ✔ SIAL
2. ✖ SIMA
3. ✖ Oceanic crust
4. ✖ Lid

Question Number : 56 Question Id : 50939818078 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 true about Asthenosphere?

Options :

1. ✘ It is present in the upper mantle

2. ✔ It is in solid state

3. ✘ It is the source of volcanic activity

4. ✘ It is in plastic rather than solid state

Question Number : 57 Question Id : 50939818079 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Who was the first person to tell about the Earth's Core?

Options :

1. ✘ Inge Lehmann

2. ✘ Emil Wiechert

3. ✘ Lord Cavendish

4. ✔ R. D. Oldham

Question Number : 58 Question Id : 50939818080 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 layer which is said to support the slow moving tectonic plate

Options :

1. ✔ Asthenosphere

2. ✘ Lithosphere

3. ✘ Mohorovic sphere

4. ✘ Core layer

Question Number : 59 Question Id : 50939818081 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 chemical composition classification of the Earth's structure, the discontinuity that was discovered in 1909

Options :

1. ✘ Gutenberg
2. ✔ Moho
3. ✘ Lehmann
4. ✘ Conrad

Question Number : 60 Question Id : 50939818082 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 sea floor spreading phenomena was proposed by

Options :

1. ✔ Harry H. Hess
2. ✘ Alfred Wegener
3. ✘ Inge Lehmann
4. ✘ Beno Gutenberg

Question Number : 61 Question Id : 50939818083 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 the forces on a body are balanced to give no rotation, how many elements will exist in stress matrix?

Options :

1. ✘ 9
2. ✔ 6
3. ✘ 4
4. ✘ 2

Question Number : 62 Question Id : 50939818084 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 value of Poisson's ratio when both the Lamé's constants are

Options :

1. ✖ 0.27
2. ✖ 0.5
3. ✖ 0.05
4. ✔ 0.25

Question Number : 63 Question Id : 50939818085 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

Maximum value of Poisson's ratio (0.5) represents

Options :

1. ✔ no volume change
2. ✖ no lateral contraction
3. ✖ no longitudinal contraction
4. ✖ rotation

Question Number : 64 Question Id : 50939818086 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

Ten equispaced metal electrodes are arranged along a profile for a  $2D$  resistivity imaging survey. If Wenner array is used for data recording, the maximum number of observations will be

Options :

1. ✖ 13

2. ✓ 12

3. ✖ 11

4. ✖ 7

Question Number : 65 Question Id : 50939818087 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 frequency domain IP method, frequency effect is defined as

Options :

1. ✖  $(\rho_{ac} - \rho_{dc})/\rho_{dc}$

2. ✖  $(\rho_{ac} - \rho_{dc})/\rho_{ac}$

3. ✓  $(\rho_{dc} - \rho_{ac})/\rho_{ac}$

4. ✖  $(\rho_{dc} - \rho_{ac})/\rho_{dc}$

Question Number : 66 Question Id : 50939818088 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 these is not a source of sufficient water supply but a certain quantity of water on a regional scale due to leakage?

Options :

1. ✖ Aquifer

2. ✓ Aquitard

3. ✖ Aquiclude

4. ✖ Aquifuge

Question Number : 67 Question Id : 50939818089 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

VES in the electrical surveying method is

Options :

1. ✖ Vertical Electrical System
2. ✖ Vertical Electromagnetic System
3. ✖ Vertical Electromagnetic Sounding
4. ✔ Vertical Electrical Sounding

Question Number : 68 Question Id : 50939818090 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 shape of a VES curve over a three-layer sequence comprising (top), freshwater saturated coarse sand (middle) and clay (bottom

Options :

1. ✖ A-type
2. ✖ Q-type
3. ✔ K-type
4. ✖ H-type

Question Number : 69 Question Id : 50939818091 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 massive sulphide body in the subsurface is partially above the water table. According to the pH variation hypothesis for the origin of self-pot, one of the following statements is correct for such a body?

Options :

1. ✔ Acidic above and basic below the water table
2. ✖ Basic above and acidic below the water table

3. ✖ Acidic above and below the water table

4. ✖ Basic above and below the water table

Question Number : 70 Question Id : 50939818092 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 process by which an originally homogeneous Earth developed and a light crust is called

Options :

1. ✖ metamorphism

2. ✔ differentiation

3. ✖ accretion

4. ✖ compression

Question Number : 71 Question Id : 50939818093 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 drives the Earth's internal heat engine?

Options :

1. ✔ Radioactivity

2. ✖ Solar energy

3. ✖ Volcanoes

4. ✖ Ocean tides

Question Number : 72 Question Id : 50939818094 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 is not associated with a convergent boundary?

Options :

1. ✖ Earthquakes
2. ✔ A mid-ocean ridge
3. ✖ A deep-sea trench zone
4. ✖ Volcanic activity

Question Number : 73 Question Id : 50939818095 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 outer planets are composed mostly of

Options :

1. ✖ rocks and ice
2. ✖ oxygen and nitrogen
3. ✔ hydrogen and helium
4. ✖ helium and krypton

Question Number : 74 Question Id : 50939818096 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 Andes Mountains of South America are a result of which movement process?

Options :

1. ✔ Convergent
2. ✖ Divergent
3. ✖ Transform

They are not related to a plate boundary

4. ✖

Question Number : 75 Question Id : 50939818097 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 name of the large supercontinent that existed 200 million years ago?

Options :

Hadean

1. ✖

Andian

2. ✖

Gondwanaland

3. ✖

Pangaea

4. ✔

Question Number : 76 Question Id : 50939818098 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 two most abundant elements in the Earth's crust are

Options :

Calcium and Carbon

1. ✖

Iron and Nickel

2. ✖

Silicon and Oxygen

3. ✔

Oxygen and Nitrogen

4. ✖

Question Number : 77 Question Id : 50939818099 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which one of the following configurations, the electrodes are spaced?

Options :

1. ✖ Pole-pole array

2. ✔ Wenner array

3. ✖ Schlumberger array

4. ✖ Pole-dipole array

Question Number : 78 Question Id : 50939818100 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 age of the Earth is currently thought to be

Options :

1. ✖ about 6000 years old

2. ✖ about 6 billion years old

3. ✖ about 4.5 million years old

4. ✔ about 4.5 billion years old

Question Number : 79 Question Id : 50939818101 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 electrical resistivity method, which among the following is reference to Geometric Factor (GF) ?

Options :

1. ✖ GF varies for profiling and remains constant for sounding

2. ✖ GF remains constant for both profiling and sounding

3. ✔ GF remains constant for profiling and varies for sounding

4. ✖ GF varies for both profiling and sounding

Question Number : 80 Question Id : 50939818102 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

For a three-layered Earth with resistivities  $\rho_1, \rho_2$  and  $\rho_3$  and  $c$  thicknesses  $h_1, h_2$  and  $h_3$  respectively, the quantity  $(h_1/\rho_1) + (h_2/\rho_2)$  stands for

Options :

1. ✓ longitudinal conductance
2. ✘ transverse resistance
3. ✘ apparent conductance
4. ✘ apparent resistance

Question Number : 81 Question Id : 50939818103 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 electrical resistivity survey, current electrode placed on 1.5 m and potential electrode 0.5 m. The geometrical factor for Schlumberger arrangement is

Options :

1. ✘ 3.83
2. ✘ 2.14
3. ✘ 2.83
4. ✓ 3.14

Question Number : 82 Question Id : 50939818104 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

Earthquake A has a Richter magnitude of 7 as compared with earthquake B of Richter magnitude 6. The amount of ground motion is one-tenth of the amount of earthquake intensity

Options :

1. ✓ A is 10 times more intense than B
2. ✘ A is 1000 times more intense than B

3. ✖ Richter magnitude does not measure intensity

4. ✖  $B$  is 0.01 times as intense than  $A$

Question Number : 83 Question Id : 50939818105 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 example for liquid form of aerosol is

Options :

1. ✖ fume

2. ✖ dust

3. ✖ smoke

4. ✔ mist

Question Number : 84 Question Id : 50939818106 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

Detailed studies of what earthquake allowed researchers to develop rebound theory?

Options :

1. ✖ The 1964 Anchorage, Alaska Earthquake

2. ✔ The 1906 San Francisco Earthquake

3. ✖ The 1755 Lisbon, Portugal Earthquake

4. ✖ The 1985 Mexico City Earthquake

Question Number : 85 Question Id : 50939818107 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 is not a dip angle measurement technique?

Options :

1. ✖ VLF
2. ✖ AFMAG
3. ✔ Slingram and Ronka method
4. ✖ Shoot back method

Question Number : 86 Question Id : 50939818108 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 causes the up-and-down Wiggles on the seismogram show

Options :

1. ✖ Variations in air pressure
2. ✔ Ground vibrations
3. ✖ Tsunami waves
4. ✖ Electromagnetic pulses

Question Number : 87 Question Id : 50939818109 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 waves is the slowest?

Options :

1. ✖ P waves
2. ✖ S waves
3. ✖ Surface waves
4. ✔ Tsunami

Question Number : 88 Question Id : 50939818110 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 a P wave were to go from a solid to a liquid, what would happen to

Options :

1. ✖ Stay the same
2. ✔ Decease
3. ✖ Increase
4. ✖ Decrease to zero

Question Number : 89 Question Id : 50939818111 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

Nyquist frequency is

Options :

1. ✖ equivalent to sampling rate
2. ✖ one-fourth of sampling rate
3. ✔ half of sampling rate
4. ✖ two-third of sampling rate

Question Number : 90 Question Id : 50939818112 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 correct analysis equation of Fourier transform is given as

Options :

1. ✖  $F(\omega) = \int_{-\infty}^{\infty} f(t) e^{j\omega t} dt$
2. ✖  $F(\omega) = \int_0^{\infty} f(t) e^{-j\omega t} dt$
3. ✖  $F(\omega) = \int_0^{\infty} f(t) e^{j\omega t} dt$
4. ✔  $F(\omega) = \int_{-\infty}^{\infty} f(t) e^{-i\omega t} dt$

Question Number : 91 Question Id : 50939818113 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 happens due to the process of Aliasing?

Options :

1. ✘ Peaks overlapping
2. ✔ Spectral overlapping
3. ✘ Amplitude overlapping
4. ✘ Phase overlapping

Question Number : 92 Question Id : 50939818114 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 the Sun is directly on the top of head, the situation is kr

Options :

1. ✔ Zenith
2. ✘ Azimuth
3. ✘ Declination
4. ✘ Hour angle

Question Number : 93 Question Id : 50939818115 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 is the solar irradiance measured on a planar surface?

Options :

1. ✔ Pyranometer
2. ✘ Net radiometer

3. ✖ Gardon gauge

4. ✖ Pyrheliometer

Question Number : 94 Question Id : 50939818116 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 effects negatively for evaporation?

Options :

1. ✖ Wind speed

2. ✖ Temperature

3. ✔ Moisture

4. ✖ Wind direction

Question Number : 95 Question Id : 50939818117 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

Atmospheric turbidity is

Options :

1. ✖ density of clouds

2. ✔ reduction of light due to dust particles

3. ✖ humidity

4. ✖ turbulence of winds

Question Number : 96 Question Id : 50939818118 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

Maximum value of gravity in the Earth is observed around

Options :

1. ✖ upper and lower crust boundary

outer core and inner core boundary

2. ✘

mantle and outer core boundary

3. ✔

at the surface of the Earth

4. ✘

Question Number : 97 Question Id : 50939818119 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

Earth's North and South magnetic poles are located at

Options :

65 °N, 101 °W and 57 °S, 143 °E

1. ✘

67 °N, 101 °W and 75 °S, 143 °E

2. ✘

75 °N, 143 °W and 67 °S, 101 °E

3. ✘

75 °N, 101 °W and 67 °S, 143 °E

4. ✔

Question Number : 98 Question Id : 50939818120 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

Water reverberation or ghost multiple noises frequently appeared

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

Options :

1. on marine seismic data

2. on land seismic data

3. on both marine and land seismic data

4. on hilly seismic data

Question Number : 99 Question Id : 50939818121 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 gases show significant variation over time and place in atmospheric altitudes?

Options :

1. ✘ Carbon dioxide

2. ✘ Ozone

3. ✔ Water vapour

4. ✘ Oxygen

Question Number : 100 Question Id : 50939818122 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

Highest albedo can be found for

Options :

1. ✘ water surface

2. ✘ plateau surfaces

3. ✘ vegetation

4. ✔ fresh snow