

# 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 :                   | 750 11th April 2021 Shift 1 |
| Subject Name :                          | 750                         |
| Creation Date :                         | 2021-04-11 17:05:45         |
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| 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\_Plant Physiology

|                               |           |
|-------------------------------|-----------|
| Group Number :                | 1         |
| Group Id :                    | 87408142  |
| 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 :                                                 | 87408192  |
| 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 :                                             | 874081134 |
| Question Shuffling Allowed :                                 | Yes       |

**Question Number : 1 Question Id : 8740815518 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

..... refers to inferring about the whole population based on the observations made on a small part.

एक छोटे से हिस्से पर की गई टिप्पणियों के आधार पर पूरी आबादी के बारे में जिक्र है :

**Options :**

- 1. ✖ Pseudo inference  
छद्म निष्कर्ष
- 2. ✖ Objective inference  
उद्देश्य निष्कर्ष
- 3. ✔ Inductive inference  
आगमनात्मक निष्कर्ष
- 4. ✖ Deductive inference  
डिडक्टिव निष्कर्ष

**Question Number : 2 Question Id : 8740815519 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

Ex-Post Facto research means .....

घटनोत्तर शोध का तात्पर्य है :

**Options :**

1. ☒ The research is carried out after the incident  
घटना के पश्चात शोध किया गया है
2. ☐ The research is carried out prior to the incident  
घटना से पहले शोध किया गया है
3. ☐ The research is carried out along with the happening of an incident  
शोध किसी घटना के घटित होने के साथ किया गया है
4. ☐ The research is carried out keeping in mind the possibilities of an incident  
शोध किसी घटना की संभावनाओं को ध्यान में रखते हुए किया गया है

**Question Number : 3 Question Id : 8740815520 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 survey, the respondents are interested to discuss the recent private cellular schemes, but the surveyor asked them about BSNL landline service. What type of error will it lead to ?

एक सर्वेक्षण में, उत्तरदाताओं को हाल ही में निजी सेलुलर योजनाओं पर चर्चा करने के लिए दिलचस्पी है, लेकिन सर्वेक्षणकर्ता ने उनसे बीएसएनएल लैंडलाइन सेवा के बारे में पूछा। किस प्रकार की त्रुटि होगी ?

**Options :**

1. ☐ Non-response error  
गैर-प्रतिक्रिया त्रुटि
2. ☒ Selection error  
चयन त्रुटि

Sample error

3. ✖ नमूना त्रुटि

Panel error

4. ✖ पैनल त्रुटि

**Question Number : 4 Question Id : 8740815521 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

Total number of digits in 'Tippet' table are :

‘टिप्पेट’ तालिका में कुल अंक होते हैं :

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

**Options :**

1. 10,400

2. 9,400

3. 10,200

4. 9,600

**Question Number : 5 Question Id : 8740815522 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

Endogenous variable is also known as :

अंतर्जात चर को इस नाम से भी जाना जाता है :

**Options :**

Intervening variable

1. ✖ मध्यवर्ती चर

Mediating variable

2. ✖ मध्यस्थ चर

Independent variable

3. ✖ स्वतंत्र चर

Dependent variable

4. ✔ आश्रित चर

**Question Number : 6 Question Id : 8740815523 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

Rejection of hypothesis which is true leads to :

परिकल्पना की अस्वीकृति जो सत्य है, कहलाती है :

**Options :**

Sampling Error

1. ✖ प्रतिचयन त्रुटि

Type II Error

2. ✖ टाइप II त्रुटि

Type I Error

3. ✔ टाइप I त्रुटि

Estimation Error

4. ✖ आकलन त्रुटि

**Question Number : 7 Question Id : 8740815524 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

Feature of a hypothesis is :  
परिकल्पना का वैशिष्ट्य है :

Options :

- 1. ✓ 

Testability  
परीक्षण करने की क्षमता
- 2. ✗ 

Insufficiency  
कमी
- 3. ✗ 

Illogical  
विसंगत
- 4. ✗ 

Complication  
जटिलता

Question Number : 8 Question Id : 8740815525 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 first step of research ?  
निम्नलिखित में से कौन-सा शोध का पहला चरण है ?

Options :

- 1. ✗ 

Designing the research  
अनुसंधान डिजाइन करना
- 2. ✗ 

Data Collection  
डेटा संग्रहण
- 3. ✓ 

Formulation of the research problem  
शोध समस्या का सूत्र
- 4. ✗ 

Analysis of data  
डेटा का विश्लेषण

Question Number : 9 Question Id : 8740815526 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

Sampling error can be reduced by :

न्यादर्श में त्रुटि को कम किया जा सकता है :

Options :

1. ✖ Non-probability sampling  
गैर-संभाव्यता न्यादर्श द्वारा
2. ✖ Increasing the population  
जनसंख्या में वृद्धि द्वारा
3. ✖ Decreasing the sample size  
न्यादर्श आकार में कमी द्वारा
4. ✔ Increasing the sample size  
न्यादर्श आकार में वृद्धि द्वारा

**Question Number : 10 Question Id : 8740815527 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

Empirical research is related to :

अनुभवाश्रित अनुसंधान संबंधित है :

Options :

1. ✖ Pure logic  
विशुद्ध तर्क से
2. ✔ Observation  
निरीक्षण से
3. ✖ Theory  
सिद्धान्त से
4. ✖ Critical Thinking  
आलोचनात्मक सोच से

Question Number : 11 Question Id : 8740815528 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 one considered as critical in qualitative research ?

गुणात्मक अनुसंधान में निम्न में से कौन-सा लक्षण आलोचनात्मक माना जाता है ?

Options :

Collecting data with the help of standardized research tools

1. ✖ माननीकृत अनुसंधान उपकरणों की मदद से ऑकड़ों का संग्रहण

Design sampling with probability sample technique.

2. ✖ संभाव्यता सैम्पल तकनीक द्वारा सैम्पलिंग योजना बनाना

Collecting data with bottom of empirical evidence

3. ✔ बॉटम अप प्रयोग सिद्ध प्रमाणों द्वारा ऑकड़ों का संग्रहण

Gathering data with top down schematic evidence

4. ✖ टाप डाउन योजनाबद्ध प्रभावों द्वारा ऑकड़ों का संग्रहण

Question Number : 12 Question Id : 8740815529 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 among the following statement is true in the context of the testing of hypothesis ?

परिकल्पना के सत्यापन के सन्दर्भ में निम्न में से कौन-सा कथन सत्य है ?

Options :

It is only the alternative hypothesis that can be tested

1. ✖ यह केवल वैकल्पिक परिकल्पना है जिसे जाँचा जा सकता है

It is only the null hypothesis that can be tested

2. ✔ यह केवल नल परिकल्पना है जिसे जाँचा जा सकता है

Both the alternative and null hypothesis can be tested

वैकल्पिक एवं नल दोनों ही परिकल्पनाओं को जाँचा जा सकता है

3. ✖

Both the alternative and null hypothesis can not be tested

वैकल्पिक एवं नल दोनों ही परिकल्पनाओं को नहीं जाँचा जा सकता है

4. ✖

**Question Number : 13 Question Id : 8740815530 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 there is a uniform variation in the ratio of the two variable then the regression would be :

यदि दो चरों के अनुपात में समान विभिन्नता पाई जाए, तो रीग्रेसन होगा :

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

**Options :**

Exponential

एक्सपोनेन्सियल

1.

Quadratic

क्वाड्रेटिक

2.

Linear

रेखिक

3.

Power

पावर

4.

**Question Number : 14 Question Id : 8740815531 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 one of the types of 'validity' encountered in research design and methodology ?

निम्नलिखित में से कौन अनुसंधान डिजाइन और कार्यप्रणाली में प्रयुक्त 'वैधता' के प्रकारों में से एक है ?

Options :

1. ✓ Statistical validity  
सांख्यिकीय वैधता

2. ✗ Integral validity  
समाकलित वैधता

3. ✗ Modular validity  
माड्यूलर वैधता

4. ✗ Projective validity  
प्रक्षेपी वैधता

Question Number : 15 Question Id : 8740815532 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 CARE list of journals the "CARE" stands for :

CARE शोध पत्रिकाओं की सूची में "CARE" का विस्तृत रूप है :

Options :

1. ✗ Consortium of Academicians for Research Ethics  
कंसोर्टियम ऑफ एकेडमिशियन्स फॉर रिसर्च एथिक्स

2. ✗ Consortium of Academicians for the Researchers Empowerment  
कंसोर्टियम ऑफ एकेडमिशियन्स फॉर द रिसर्चर्स एम्पॉवरमेंट

3. ✓ Consortium of Academic and Research Ethics  
कंसोर्टियम ऑफ एकेडमिक एण्ड रिसर्च एथिक्स

4. ✗ Consortium of Academic and Researchers Ethics  
कंसोर्टियम ऑफ एकेडमिक एण्ड रिसर्चर्स एथिक्स

Question Number : 16 Question Id : 8740815533 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 statement A and B and choose the correct option :

कथन A और B पढ़ें और सही विकल्प चुनें :

**Statement (A) :** The structured approach to enquiry is usually classified as qualitative research.

**कथन (A) :** समीक्षा के लिए संरचित दृष्टिकोण को आमतौर पर गुणात्मक अनुसंधान के रूप में वर्गीकृत किया जाता है।

**Statement (B) :** In the structured approach, everything that forms the research process – objectives, design, sample, and the questions that a researcher plans to ask of respondents – is not predetermined.

**कथन (B) :** संरचित दृष्टिकोण में, वह सब कुछ जो अनुसंधान प्रक्रिया का निर्माण करता है – उद्देश्य, डिजाइन, नमूना, और वे प्रश्न जो एक शोधकर्ता ने उत्तरदाताओं में पूछने की योजना बनाई है – पूर्व निर्धारित नहीं होती है।

Options :

Both the statements are true

1. ✖ दोनों कथन सत्य है

Both the statements are false

2. ✔ दोनों कथन असत्य है

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 : 17 Question Id : 8740815534 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

"Controlled Group" is a term used in .....

“नियंत्रित समूह” ..... में प्रयुक्त एक शब्द है।

Options :

- 1. ✖ Survey research  
सर्वेक्षण शोध
- 2. ✖ Historical research  
ऐतिहासिक शोध
- 3. ✔ Experimental research  
प्रायोगिक शोध
- 4. ✖ Descriptive research  
वर्णनात्मक शोध

Question Number : 18 Question Id : 8740815535 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 statement and choose the correct option given below :

नीचे दिए गए कथनों को पढ़ें और सही विकल्प चुनें :

Statement (A) : A hypothesis must not be falsifiable.

अभिकथन (A) : परिकल्पना मिथ्या साबित नहीं होनी चाहिए।

Reason (R) : If a hypothesis is falsifiable, then science cannot be used to test the hypothesis,

तर्क (R) : यदि परिकल्पना मिथ्या है, तो परिकल्पना का परीक्षण करने के लिए विज्ञान का उपयोग नहीं किया जा सकता है।

Options :

- 1. ✖ Both the statements are true and (R) is the correct explanation of (A)  
दोनों कथन सत्य हैं और (A) की सही व्याख्या (R) है।
- 2. ✖ Both the statements are true but (R) is not the correct explanation of (A)  
दोनों कथन सत्य हैं लेकिन (A) की सही व्याख्या (R) नहीं है
- 3. ✖ (A) is false but (R) is true  
(A) गलत है लेकिन (R) सत्य है

Both the statements are false

4. ✓ दोनों कथन गलत है

Question Number : 19 Question Id : 8740815536 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

To test which of the following is not used a qualitative hypothesis ?

निम्नलिखित में से किसका परीक्षण करने के लिए गुणात्मक परिकल्पना का उपयोग नहीं किया जाता है ?

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

Options :

1. t-test  
टी-टेस्ट
2. ANOVA  
एनोवा
3. Chi Square  
काई-स्क्वायर
4. F-test  
एफ-टेस्ट

Question Number : 20 Question Id : 8740815537 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

Fundamental research reflects the ability to :

मौलिक शोध की क्षमता को दर्शाता है :

Options :

1. ✗ Synthesize new ideals  
नए आदर्शों का संश्लेषण करना

Expound new principles

2. ✓ नए सिद्धांतों को उजागर करना

Evaluate the existing material concerning research

3. ✗ शोध से संबंधित मौजूदा सामग्री का मूल्यांकन करना

Study the existing literature regarding various topics

4. ✗ विभिन्न विषयों के संबंध में मौजूदा साहित्य का अध्ययन करना

**Question Number : 21 Question Id : 8740815538 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 sampling technique which of the following is not a part of sampling frame ?

नमूना तकनीक में निम्नलिखित में से कौन सा नमूना फ्रेम का हिस्सा नहीं है ?

Options :

a list of random numbers

1. ✓ यादृच्छिक संख्याओं की सूची

a list of sampling units of a population

2. ✗ एक जनसंख्या की नमूना इकाइयों की सूची

a list of voters

3. ✗ मतदाताओं की सूची

a list of respondents only

4. ✗ केवल उत्तरदाताओं की सूची

**Question Number : 22 Question Id : 8740815539 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 of two variables, when the variables change their direction in opposite manner, then this phenomenon is called :

दो 'चरों' के अध्ययन में, जब चर अपनी दिशा विपरीत तरीके में बदलते हैं, तो इस घटना को कहा जाता है :

Options :

Positive-Negative Correlation

1. ✖ सकारात्मक-नकारात्मक सहसंबंध

Negative Correlation

2. ✔ नकारात्मक सहसंबंध

Fluctuating Correlation

3. ✖ अस्थिर सहसंबंध

Positive Correlation

4. ✖ सकारात्मक सहसंबंध

Question Number : 23 Question Id : 8740815540 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 stem and leaf display is an effective, quick and simple way of displaying a :

‘स्टेम और लीफ डिस्प्ले’ निम्नलिखित में से किसे प्रदर्शित करने का एक प्रभावी, त्वरित और सरल तरीका है :

Options :

Hypothesis

1. ✖ परिकल्पना

Frequency Distribution

2. ✔ आवृत्ति वितरण

Research Question

3. ✖ शोध प्रश्न

4. ✖

Question Number : 24 Question Id : 8740815541 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

..... is useful to study changes of values in the variable over time.

..... समय के साथ चर में मूल्यों के परिवर्तनों का अध्ययन करने के लिए उपयोगी है।

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

Options :

Pie diagram

पाई आरेख

1.

Bar diagram

बार आरेख

2.

Scatter diagram

स्कैटर आरेख

3.

Line diagram

रेखा आरेख

4.

Question Number : 25 Question Id : 8740815542 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 effect of the exposure of interest on the outcome is distorted because of the effect of extraneous factors that are related to both the exposure and outcome. This phenomenon is called :

परिणाम पर ब्याज के जोखिम का प्रभाव विकृत कारकों के प्रभाव के कारण विकृत होता है, जो जोखिम और परिणाम दोनों से संबंधित हैं। इस घटना को कहा जाता है :

Options :

- 1. ✖ Correlation  
सहसंबंध
- 2. ✔ Confounding  
उलझना
- 3. ✖ Recall bias  
रिकाल प्रवृत्ति
- 4. ✖ Measurement error  
मापन त्रुटि

Question Number : 26 Question Id : 8740815543 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 we are doing an analytical study and the study outcome is of acute nature and rare condition what is the appropriate study design ?

यदि हम एक विश्लेषणात्मक अध्ययन कर रहे हैं और अध्ययन का परिणाम तीव्र प्रकृति और दुर्लभ स्थिति का है, तो उपयुक्त अध्ययन डिजाइन क्या है ?

Options :

- 1. ✖ Cohort study  
कोहोर्ट अध्ययन
- 2. ✔ Case-control study  
केस-कंट्रोल अध्ययन
- 3. ✖ Cross-sectional study  
क्रॉस-अनुभागीय अध्ययन

4. ✖ निगरानी

Question Number : 27 Question Id : 8740815544 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 validity that refers to the extent to which the new questionnaire conforms to existing ideas or hypotheses is known as :

वह वैधता जो इसे सूचित करती है कि किस सीमा तक नई प्रश्नावली प्रचलित विचारों एवं परिकल्पनाओं के अनुरूप है, कहलाता है :

Options :

1. ✖ Content validity  
अंतर्वस्तु वैधता

2. ✖ Construct validity  
निर्मित वैधता

3. ✖ Face validity  
आभासी वैधता

4. ✔ Criterion validity  
मानदण्डीय वैधता

Question Number : 28 Question Id : 8740815545 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

According to Goode & Hatt, scaling techniques :

गुडे और हॉट के अनुसार, अनुमापन विधियाँ :

Options :

1. ✔ Convert qualitative data into quantitative  
गुणात्मक तथ्यों को गणनात्मक तथ्यों में बदलती है

Convert quantitative data into qualitative

2. ✖ गणनात्मक तथ्यों को गुणात्मक में बदलना

Measurement of qualitative facts

3. ✖ गुणात्मक तथ्यों का अनुमापन

Analysis of quantitative facts

4. ✖ गणनात्मक तथ्यों का विश्लेषण

**Question Number : 29 Question Id : 8740815546 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 study where the investigators introduce an intervention and observe the events which take place is called :

एक अध्ययन जहाँ जाँचकर्ता हस्तक्षेप करते हैं और उन घटनाओं का निरीक्षण करते हैं, जो घटित होती है :

**Options :**

Observational Study

1. ✖ पर्यवेक्षणीय अध्ययन

Descriptive Study

2. ✖ वर्णनात्मक अध्ययन

Case-Control Study

3. ✖ नियंत्रित रेगी अध्ययन

Experimental Study

4. ✔ प्रयोगात्मक अध्ययन

**Question Number : 30 Question Id : 8740815547 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 problem is considered to be good, if it meets the following criteria :

एक शोध समस्या को तब अच्छा माना जाता है, जब निम्नलिखित मानदण्डों को वह पूरा करती है :

Options :

1. ✖ Fit, inconvenient, Noble, Ethnic, Revolving (FINER)  
फिट, असुविधाजनक, महान, जातीय, परिक्रामी
2. ✔ Feasible, Interesting, Novel, Ethical and Relevant (FINER)  
व्यवहार्य, दिलचस्प, नवीन, नैतिक और प्रासंगिक
3. ✖ Fluctuating, Innocuous, Noticeable, Entrepreneur, Residual (FINER)  
रूपांतरित, अहानिकर, ध्यान देने योग्य, उद्यमी, अवशिष्ट
4. ✖ Foolish, Imperfect, Natural, Erratic, Revolutionary (FINER)  
मूर्खतापूर्ण, अपूर्ण, प्राकृतिक, गलत, क्रांतिकारी

Question Number : 31 Question Id : 8740815548 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

COPE stands for :

COPE का अर्थ है :

Options :

1. ✖ Committee on Publication Errors  
प्रकाशन त्रुटियों पर समिति
2. ✔ Committee on Publication Ethics  
प्रकाशन नैतिकता पर समिति
3. ✖ Commission of Potential Editors  
संभावित संपादकों का आयोग
4. ✖ Community-based Outputs for Public Education  
सार्वजनिक शिक्षा के लिए समुदाय आधारित आउटपुट

Question Number : 32 Question Id : 8740815549 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

Each of the following is true about cross sectional study, EXCEPT :

निम्नलिखित में से प्रत्येक परा-अनुभागीय अध्ययन के बारे में सच है, सिवाय :

Options :

- 1. ✖ Unable to measure incidence  
व्यापकता (incidence) को मापने में असमर्थ
- 2. ✔ Data are collected at multiple points in time  
समय में कई बिन्दुओं पर डेटा एकत्र किया जाता है
- 3. ✖ Relatively quick and easy to conduct  
अपेक्षाकृत जल्दी और आचरण में आसान
- 4. ✖ Able to measure the prevalence  
प्रचलन (prevalence) को मापने में सक्षम

Question Number : 33 Question Id : 8740815550 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

Standard Error is nothing but :

मानक त्रुटि है :

Options :

- 1. ✖ Standard deviation of population distribution  
पॉपुलेशन वितरण का मानक विचलन
- 2. ✖ Dispersion Error  
फैलाव त्रुटि
- 3. ✔ Standard deviation of sampling distribution  
सैम्पल वितरण का मानक विचलन

## Conceptual Error

### वैचारिक त्रुटि

4. ✖

**Question Number : 34 Question Id : 8740815551 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

DOI in a published research paper stands for :

एक प्रकाशित शोध पत्र में डी० ओ० आई० का अर्थ है :

Options :

Directory of Index

सूचकांक की निर्देशिका

1. ✖

Digital Objective Index

डिजिटल उद्देश्य सूचकांक

2. ✖

Direct Object Identifiers

प्रत्यक्ष वस्तु पहचानकर्ता

3. ✖

Digital Object Identifier

डिजिटल ऑब्जेक्ट पहचानकर्ता

4. ✔

**Question Number : 35 Question Id : 8740815552 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 techniques used for controlling experimenter bias ?

प्रयोगकर्ता पूर्वाग्रह को नियंत्रित करने के लिए निम्नलिखित में से कौन-सी तकनीक का उपयोग किया जाता है ?

Options :

Double eyed technique

डबल-आइड तकनीक

1. ✖

Open eyed technique

2. ✖ ओपन-आइड तकनीक

Double blind technique

3. ✔ डबल-ब्लाइंड तकनीक

Open blind technique

4. ✖ ओपन-ब्लाइंड तकनीक

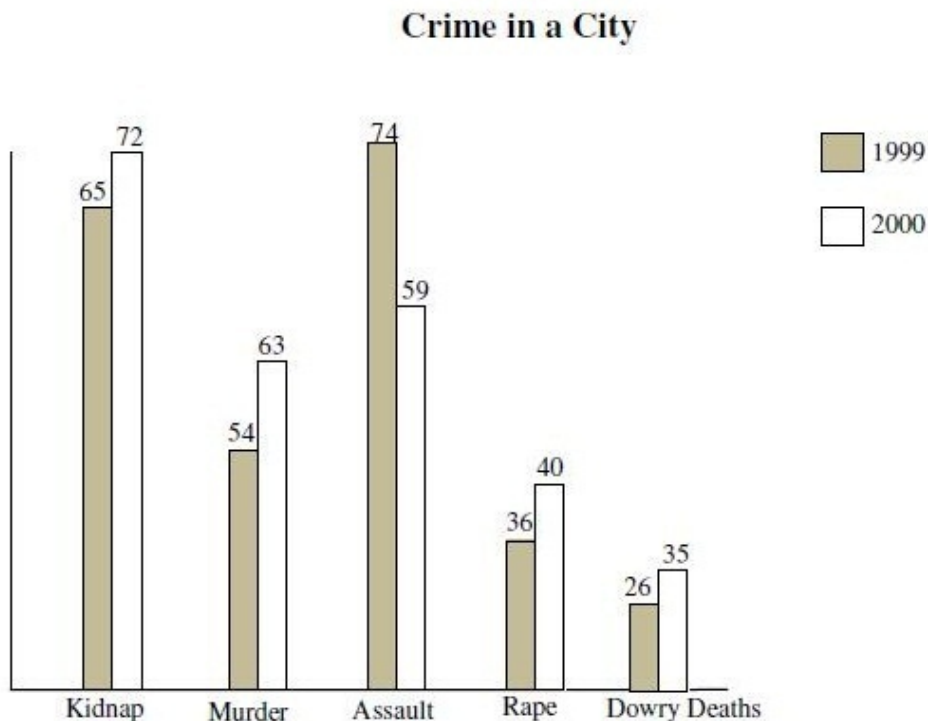
Question Number : 36 Question Id : 8740815553 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

*Study the following graph and answer the question :*

निम्नलिखित ग्राफ का अध्ययन करें और प्रश्न का उत्तर दें :



What was difference in crime between 1999 and 2000 ?

1999 और 2000 के बीच क्राइम में कितना अन्तर था ?

Options :

1. ✔ 14

2. ✖ 16

3. ✖ 18

4. ✖ 20

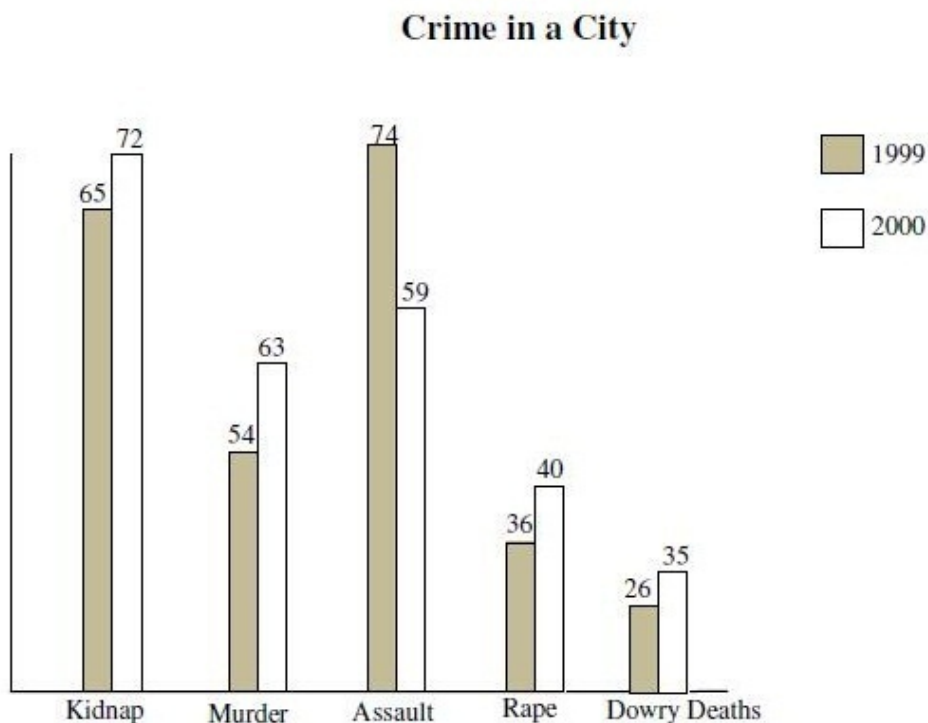
Question Number : 37 Question Id : 8740815554 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

*Study the following graph and answer the question :*

निम्नलिखित ग्राफ का अध्ययन करें और प्रश्न का उत्तर दें :



What was increase percent in rape from 1999 to 2000 ?  
वर्ष 1999 से 2000 में रेप में वृद्धि प्रतिशत कितना था ?

Options :

1. ✔ 11%

2. ✖ 40%

3. ✖ 15%

4. ✖ 30%

Question Number : 38 Question Id : 8740815555 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

*Study the following graph and answer the following question :*

निम्नलिखित ग्राफ का अध्ययन करें और दिए गए प्रश्न का उत्तर दें :

**Students Going Abroad for Study from Different States/UTs**

विभिन्न राज्यों / केंद्र शासित प्रदेशों से अध्ययन के लिए विदेश जाने वाले छात्र

| State/U.T.     | Year |      |      |      |      |
|----------------|------|------|------|------|------|
|                | 1995 | 1996 | 1997 | 1998 | 1999 |
| Maharashtra    | 723  | 840  | 900  | 920  | 925  |
| Kerala         | 1035 | 940  | 1200 | 1400 | 1500 |
| Karnataka      | 750  | 600  | 830  | 575  | 900  |
| West Bengal    | 500  | 550  | 450  | 600  | 525  |
| Delhi          | 1500 | 1625 | 1700 | 1475 | 1800 |
| Andhra Pradesh | 800  | 840  | 875  | 925  | 785  |
| Total          | 5308 | 5395 | 5955 | 5895 | 6435 |

What was the percentage increase in the number of students from West Bengal from 1997 to 1998 ?

1997 से 1998 तक पश्चिम बंगाल के छात्रों की संख्या में कितने प्रतिशत की वृद्धि हुई थी ?

Options :

1. ✖  $66\frac{2}{3}$

2. ✓  $33\frac{1}{3}$

3. ✗ 150

4. ✗ 50

**Question Number : 39 Question Id : 8740815556 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

*Study the following graph and answer the following question :*

निम्नलिखित ग्राफ का अध्ययन करें और दिए गए प्रश्न का उत्तर दें :

### Students Going Abroad for Study from Different States/UTs

विभिन्न राज्यों / केंद्र शासित प्रदेशों से अध्ययन के लिए विदेश जाने वाले छात्र

| State/U.T.     | Year |      |      |      |      |
|----------------|------|------|------|------|------|
|                | 1995 | 1996 | 1997 | 1998 | 1999 |
| Maharashtra    | 723  | 840  | 900  | 920  | 925  |
| Kerala         | 1035 | 940  | 1200 | 1400 | 1500 |
| Karnataka      | 750  | 600  | 830  | 575  | 900  |
| West Bengal    | 500  | 550  | 450  | 600  | 525  |
| Delhi          | 1500 | 1625 | 1700 | 1475 | 1800 |
| Andhra Pradesh | 800  | 840  | 875  | 925  | 785  |
| Total          | 5308 | 5395 | 5955 | 5895 | 6435 |

In the case of which State/U.T. was there a continuous increase in the number of students over the given years ?

किस राज्य / यू.टी. के मामले में दिए गए वर्षों में छात्रों की संख्या में लगातार वृद्धि हुई है ?

**Options :**

- Kerala  
केरल
1. ✖
- Delhi  
दिल्ली
2. ✖
- Andhra Pradesh  
आन्ध्र प्रदेश
3. ✖
- Maharashtra  
महाराष्ट्र
4. ✔

**Question Number : 40 Question Id : 8740815557 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 citation style if an article is cited in the following manner Kammer, Minian. "Breaking the bounds of Domesticity : Ecofeminism and nature space in Love's Labour's lost" Shakespeare Bulletin, vol. 36, no. 3, 2018, pp. 467-483 :

यदि कोई लेख निम्नलिखित तरीके से उद्धृत किया गया है, तो उद्धरण शैली को पहचानें-  
केमर, मिनियन। ब्रेकिंग द बाउण्ड्स ऑफ डोमेस्टिसिटी : इकोफेमिनिज्म एंड नेचर स्पेस  
इन लव लेबर्स लॉस्ट शेक्सपियर बुलेटिन, vol. 36, no. 3, 2018, pp. 467-483 :

**Options :**

- APA  
एपीए
1. ✖
- Harvard  
हार्वर्ड
2. ✖
- MLA  
एमएलए
3. ✔
- Chicago  
शिकागो
4. ✖

## Subject\_&\_Area Concerned

|                                                              |           |
|--------------------------------------------------------------|-----------|
| Section Id :                                                 | 87408193  |
| 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 :                                             | 874081135 |
| Question Shuffling Allowed :                                 | Yes       |

Question Number : 41 Question Id : 8740815558 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 of the following part of plant prolamellar bodies are present ?

Options :

1. ✖ Middle lamella
2. ✖ Chloroplasts
3. ✔ Etioplasts
4. ✖ Between primary and secondary cell walls

Question Number : 42 Question Id : 8740815559 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 immediate precursor of cellulose biosynthesis in plants ?

Options :

1. ✖ ADPG

2. ✓ UDPG

3. ✗ GDPG

4. ✗ Glucose-1-phosphate

**Question Number : 43 Question Id : 8740815560 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 of the following type of soils black alkali is formed ?

**Options :**

1. ✗ Acidic soils

2. ✓ Sodic soils

3. ✗ Saline soils

4. ✗ Saline-sodic soils

**Question Number : 44 Question Id : 8740815561 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 approximate molecular weight of osmotin ?

**Options :**

1. ✗ 16kDa

2. ✓ 26kDa

3. ✗ 36kDa

4. ✗ 46kDa

**Question Number : 45 Question Id : 8740815562 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 happen if a cell with osmotic pressure 1.0 MPa and turgor pressure 0.20 MPa, is placed in sugar solution of osmotic potential of – 0.80 MPa ?

**Options :**

1. ✖ Turgor pressure of cell will decrease
2. ✖ Osmotic potential of cell will increase
3. ✖ Osmotic potential of cell will decrease
4. ✔ Osmotic potential of cell will remain unchanged

**Question Number : 46 Question Id : 8740815563 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 major chemical constituent present in Casparian strip which causes endodermal cells impervious to water is :

**Options :**

1. ✖ Lignin
2. ✔ Suberin
3. ✖ Cellulose
4. ✖ Cutin

**Question Number : 47 Question Id : 8740815564 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 termed as the 'critical concentration' of a nutrient for plant ?

Options :

1. ✖ Nutrient concentration in tissue at which plant growth is 95% of the maximum
2. ✔ Nutrient concentration in tissue at which plant growth is 90% of the maximum
3. ✖ Nutrient concentration in tissue at which plant growth is 85% of the maximum
4. ✖ Nutrient concentration in tissue at which plant growth is 80% of the maximum

**Question Number : 48 Question Id : 8740815565 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

'Forisomes' are present in which of the following part/organelle of the plants ?

Options :

1. ✖ Chloroplasts
2. ✖ Mitochondria
3. ✔ Sieve tube
4. ✖ Guard cells

**Question Number : 49 Question Id : 8740815566 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 'mole fraction of solvent' in a solution ?

Options :

1. ✖ moles of solvent/moles of solute
2. ✖ moles of solute/moles of solvent

3. ✖ (moles of solvent+ moles of solute)/moles of solute
4. ✔ moles of solvent/ (moles of solute + moles of solvent)

**Question Number : 50 Question Id : 8740815567 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 element is responsible for 'blind-staggers' disease in grazing animals ?

**Options :**

1. ✖ Vanadium
2. ✖ Silicon
3. ✖ Fluorine
4. ✔ Selenium

**Question Number : 51 Question Id : 8740815568 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 characteristic of saline-sodic soil ?

**Options :**

1. ✖  $EC_e > 4.0$ ,  $pH > 8.5$ ,  $ESP < 15$
2. ✖  $EC_e > 4.0$ ,  $pH < 8.5$ ,  $ESP < 15$
3. ✔  $EC_e > 4.0$ ,  $pH > 8.5$ ,  $ESP > 15$
4. ✖  $EC_e < 4.0$ ,  $pH < 8.5$ ,  $ESP < 15$

Question Number : 52 Question Id : 8740815569 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 major heat shock proteins (HSPs) in higher plants belong to which of the following classes ?

Options :

1. ✖ HSP70 and HSP90
2. ✖ HSP40, HSP70 and HSP90
3. ✖ HSP17-28, HSP70 and HSP120
4. ✔ HSP17-28, HSP70 and HSP90

Question Number : 53 Question Id : 8740815570 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 leaf stomatal conductance for diffusion of water vapour is  $g_{H_2O}$  then generally which of the following equation expresses the stomatal conductance for  $CO_2$  ( $g_{CO_2}$ ) ?

Options :

1. ✖  $g_{CO_2} = (g_{H_2O})$
2. ✖  $g_{CO_2} = (g_{H_2O})/1.625$
3. ✖  $g_{CO_2} = 1.625/(g_{H_2O})$
4. ✔  $g_{CO_2} = (g_{H_2O}) \times 1.625$

Question Number : 54 Question Id : 8740815571 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 plants is considered as hyper-accumulator of gold ?

Options :

1. ✖ Pea
2. ✔ Mustard
3. ✖ Paddy
4. ✖ Cotton

Question Number : 55 Question Id : 8740815572 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

Phytosiderophores are involved in the acquisition of iron in which of the following plant ?

Options :

1. ✖ Plants with Strategy I mechanism of iron acquisition
2. ✔ Plants with Strategy II mechanism of iron acquisition
3. ✖ Plants with Strategy I as well as Strategy II mechanisms of iron acquisition
4. ✖ All monocots

Question Number : 56 Question Id : 8740815573 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

Most suitable temperature for vernalization in plants ranges from :

Options :

1. ✔ 1-6°C

- 2. ✖ 6-10°C
- 3. ✖ 7-9°C
- 4. ✖ 10-16°C

**Question Number : 57 Question Id : 8740815574 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 acts as substitute for Red light for germination of positive photoblastic seeds ?

**Options :**

- 1. ✔ GA
- 2. ✖ Auxin
- 3. ✖ Cytokinin
- 4. ✖ Ethylene

**Question Number : 58 Question Id : 8740815575 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 inhibitory effect of red light on flowering during critical dark period in short day plants can be overcome by :

**Options :**

- 1. ✖ Blue light
- 2. ✔ Far-red light
- 3. ✖ Infra-red rays

4. ✖ UV-rays

Question Number : 59 Question Id : 8740815576 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

*Arabidopsis* is a :

Options :

1. ✖ Short day plant
2. ✖ Long short day plant
3. ✔ Long day plant
4. ✖ Short long day plant

Question Number : 60 Question Id : 8740815577 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 hormones replaces low temperature requirement in certain plants ?

Options :

1. ✖ Auxin
2. ✖ Cytokinin
3. ✔ Gibberellins
4. ✖ Salicylic acid

Question Number : 61 Question Id : 8740815578 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

Somatic hybridization of tomato and potato was demonstrated by :

**Options :**

1. ✖ Larkin & Scowcroft
2. ✖ Krens
3. ✖ Chilton
4. ✔ Melchers

**Question Number : 62 Question Id : 8740815579 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

"Mingo" - the first licensed cultivar of which of the following plant was produced using haploid induced *in vitro* based on bulbosum method :

**Options :**

1. ✖ Oat
2. ✔ Barley
3. ✖ Wheat
4. ✖ Tomato

**Question Number : 63 Question Id : 8740815580 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 followings which is known as 'mericlone'?

**Options :**

1. ✖ Stem culture

2.  Meristem culture
3.  Root culture
4.  Flower culture

**Question Number : 64 Question Id : 8740815581 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

Example of drought escapers is :

**Options :**

1.  Desert annuals
2.  Palms
3.  Citrus
4.  Mesquite

**Question Number : 65 Question Id : 8740815582 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

Legume seeds are generally rich in :

**Options :**

1.  Albumins
2.  Globulins
3.  Glutelins
4.  Prolamins

**Question Number : 66 Question Id : 8740815583 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

Process of seed germination starts with :

Options :

1. ✖ Diffusion
2. ✔ Imbibition
3. ✖ Osmosis
4. ✖ Endosmosis

**Question Number : 67 Question Id : 8740815584 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 seeds which just wait for suitable environmental conditions to germinate are called as :

Options :

1. ✖ Dormant
2. ✖ Dry seeds
3. ✔ Quiescent
4. ✖ Microbiotic

**Question Number : 68 Question Id : 8740815585 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 plants, richest source of phytochrome are :

**Options :**

1. ☒ Etiolated seedlings
2. ☐ Seedlings grown in light
3. ☐ Both Etiolated seedlings and Seedlings grown in light
4. ☐ Seedling exposed to UV light

**Question Number : 69 Question Id : 8740815586 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

Ratio of light : dark period (in hours) in environmentally controlled culture room normally is :

**Options :**

1. ☐ 11 : 8
2. ☐ 14 : 6
3. ☒ 16 : 8
4. ☐ 12 : 12

**Question Number : 70 Question Id : 8740815587 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

Drought resistance in plants is related to :

**Options :**

1. ☐ positive water potential
2. ☒ negative water potential
3. ☐ both positive water potential and negative water potential

#### 4. ✖ Inhibitors

**Question Number : 71 Question Id : 8740815588 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 in a chlorophyll molecule, the central magnesium atom is replaced by two hydrogen atoms, the resulting molecule will be :

Options :

- 1. ✖ Hydroquinone
- 2. ✔ Pheophytin
- 3. ✖ Plastoquinone
- 4. ✖ Chlorophyll H

**Question Number : 72 Question Id : 8740815589 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 involved in non-photochemical quenching ?

Options :

- 1. ✖ Violaxanthin
- 2. ✖ Antheraxanthin
- 3. ✖ Zeaxanthin
- 4. ✔ All of the three

**Question Number : 73 Question Id : 8740815590 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 source tissues, starch and sucrose are synthesized in the :

**Options :**

1. ✖ Cytosol
2. ✖ Chloroplast
3. ✔ Chloroplast and cytosol, respectively
4. ✖ Cytosol and chloroplast, respectively

**Question Number : 74 Question Id : 8740815591 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 key regulatory metabolite that controls the partitioning of photosynthetically fixed carbon between sucrose and starch allowing increased sucrose synthesis in the light and decreased synthesis in the dark ?

**Options :**

1. ✔ Fructose-2,6-bisphosphate
2. ✖ Fructose-1,6-bisphosphate
3. ✖ UDP Glucose
4. ✖ ADP Glucose

**Question Number : 75 Question Id : 8740815592 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 plant citric acid cycle, one molecule of the following is synthesized by substrate level phosphorylation during the reaction catalyzed by succinyl-CoA synthetase :

**Options :**

1.  ATP
2.  GTP
3.  UTP
4.  AMP

**Question Number : 76 Question Id : 8740815593 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 plants, fatty acids are synthesized exclusively in :

**Options :**

1.  Oleosomes
2.  Plastids
3.  Golgi apparatus
4.  Endoplasmic reticulum

**Question Number : 77 Question Id : 8740815594 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

Nitrate assimilation in plants occur in :

**Options :**

1.  Nongreen tissues
2.  Green tissues
3.  Green and nongreen tissues

4. ✖ Vascular tissues

**Question Number : 78 Question Id : 8740815595 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 main molybdenum containing protein in vegetative tissues ?

**Options :**

1. ✖ Transaminase
2. ✔ Nitrate reductase
3. ✖ Nitrogenase
4. ✖ Nitrite reductase

**Question Number : 79 Question Id : 8740815596 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 plants, nitrite reductase is encoded by :

**Options :**

1. ✔ Nuclear genome
2. ✖ Plastome
3. ✖ Chloroplast genome
4. ✖ Mitochondrial genome

**Question Number : 80 Question Id : 8740815597 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 reaction is catalyzed by the enzyme nitrogenase ?

Options :

1. ✗ Nitrous oxide reduction
2. ✗ Azide reduction
3. ✗ Acetylene reduction
4. ✓ All of the three

**Question Number : 81 Question Id : 8740815598 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

Citrulline is an example of :

Options :

1. ✗ Amide
2. ✓ Ureide
3. ✗ Amine
4. ✗ None of the three

**Question Number : 82 Question Id : 8740815599 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

Nod factors are lipochitin oligosaccharide signal molecules, all which have a backbone of :

Options :

1. ✓ Chitin  $\beta$ -1  $\rightarrow$  4 linked *N*-acetyl-D-glucosamine
2. ✗ Chitin  $\beta$ -1  $\rightarrow$  6 linked *N*-acetyl-D-glucosamine
3. ✗ Chitin  $\beta$ -1  $\rightarrow$  4 linked *N*-acetyl-D-glucosamide
4. ✗ Chitin  $\beta$ -1  $\rightarrow$  6 linked *N*-acetyl-D-glucosamide

Question Number : 83 Question Id : 8740815600 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

Heterocysts are thick-walled cells that differentiate when filamentous cyanobacteria are deprived of :

Options :

1. ✓  $\text{NH}_4^+$
2. ✗  $\text{O}_2$
3. ✗  $\text{NO}_3^-$
4. ✗  $\text{H}_2\text{O}$

Question Number : 84 Question Id : 8740815601 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 18 C unsaturated fatty acid ?

Options :

1. ✗ Myristic acid
2. ✗ Lauric acid

3.  Linolenic acid

4.  Stearic acid

**Question Number : 85 Question Id : 8740815602 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

Plants fractionate which of the following isotope that serve as indicators of specific metabolic pathways ?

Options :

1.   $^{13}\text{CO}_2/^{12}\text{CO}_2$

2.   $^{15}\text{N}/^{14}\text{N}$

3.   $^{18}\text{O}/^{16}\text{O}$

4.  All of the three

**Question Number : 86 Question Id : 8740815603 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 hormone which is responsible for abscission of plant parts is :

Options :

1.  Gibberellin

2.  Jasmonic acid

3.  Ethylene

#### 4. ✖ Cytokinin

**Question Number : 87 Question Id : 8740815604 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 among the following is Auxin Transport Inhibitors ?

Options :

- 1. ✖ PMA
- 2. ✔ TIBA
- 3. ✖ Kaolin
- 4. ✖ Putrescine

**Question Number : 88 Question Id : 8740815605 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 first steroidal plant growth regulator extracted from pollen of *Brassica napus* :

Options :

- 1. ✖ Catasterone
- 2. ✖ Jasmonates
- 3. ✖ Salicylic acid
- 4. ✔ Brassinolide

**Question Number : 89 Question Id : 8740815606 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 barley aleurone layer  $\alpha$ -amylase bioassay is performed for the hormone :

Options :

1. ☒ Gibberellin
2. ☐ Cytokinin
3. ☐ Auxin
4. ☐ Ethylene

Question Number : 90 Question Id : 8740815607 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 regulatory enzyme which controls the biosynthesis of ethylene in plants is:

Options :

1. ☐ S-adenosyl methionine synthetase
2. ☐ ACC oxidase
3. ☐ ACC deaminase
4. ☒ ACC synthase

Question Number : 91 Question Id : 8740815608 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 parameter is the direct manifestation of photosynthetic rate ?

Options :

1. ☐ Crop Growth Rate
2. ☒ Net Assimilation Rate

3. ✖ Relative Growth Rate

4. ✖ Absolute Growth Rate

**Question Number : 92 Question Id : 8740815609 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 critical leaf area index is leaf area index at which :

Options :

1. ✖ There is maximum AGR

2. ✖ There is 60% light interception by crop canopy

3. ✖ There is maximum SLW

4. ✔ There is 95% light interception by crop canopy

**Question Number : 93 Question Id : 8740815610 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 term crop ideotype was given by :

Options :

1. ✖ Lysenko

2. ✔ Donald

3. ✖ Briggs

4. ✖ Blackman

**Question Number : 94 Question Id : 8740815611 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 part of root from which root hair emanates is :

**Options :**

1. ✖ Elongation Zone
2. ✖ Root cap
3. ✔ Maturation Zone
4. ✖ Meristematic Zone

**Question Number : 95 Question Id : 8740815612 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 theory of "Law of Limiting factors" for photosynthesis was given by:

**Options :**

1. ✖ Went
2. ✖ Mitscherlich
3. ✔ F.F. Blackman
4. ✖ Warburg

**Question Number : 96 Question Id : 8740815613 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 of growth of plant is highest in :

**Options :**

1. ✖ Lag phase

2. ✖ Steady phase
3. ✖ Stationary phase
4. ✔ Log phase

**Question Number : 97 Question Id : 8740815614 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

G-proteins are GTP binding proteins that are involved in :

**Options :**

1. ✔ Signal transduction pathways
2. ✖ Biosynthesis of Gibberellins
3. ✖ Biosynthesis of Auxins
4. ✖ None of the three

**Question Number : 98 Question Id : 8740815615 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

Fusicoccin is sometimes called as 'super-auxin' because it causes :

**Options :**

1. ✔ Much lower apoplastic pH than auxin
2. ✖ Much higher apoplastic pH than auxin
3. ✖ Much lower symplastic pH than auxin
4. ✖ does not make any change in pH

**Question Number : 99 Question Id : 8740815616 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

1-Methyl cyclopropane (MCP), a volatile synthetic compound used in post harvest agricultural practices is an :

**Options :**

1. ✘ Anti-auxin
2. ✘ Anti-gibberellin
3. ✔ Anti-ethylene
4. ✘ Anti-cytokinin

**Question Number : 100 Question Id : 8740815617 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 acts as secondary messenger in ABA signal transduction pathway ?

**Options :**

1. ✘ NPA
2. ✘ MAP kinase
3. ✘ PBA
4. ✔ IP<sub>3</sub>