

Banaras Hindu University

Notations :

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

Question Paper Name:	886
Subject Name:	886
Creation Date:	2019-10-22 13:18:20
Duration:	120
Total Marks:	300
Display Marks:	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

RET_Computer_Science

Group Number :	1
Group Id :	76221167
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	300

Research_Methodology

Section Id :	762211133
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	40
Number of Questions to be attempted:	40
Section Marks:	120
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	762211133

Question Number : 1 Question Id : 7622116601 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Probability sampling is otherwise called :

सम्भाव्यता प्रतिदर्श को जाना जाता है :

Options :

Multiple choice

1. ✘ बहुविकल्पीय चयन

Uni-variate Analysis

2. ✘ यूनी-वैरिएट विश्लेषण

Random Sampling

3. ✔ यादृच्छिक प्रतिदर्श

Bi-variate Analysis

4. ✘ बाई-वैरिएट विश्लेषण

Question Number : 2 Question Id : 7622116602 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A Research Report is a formal statement of

एक शोध रिपोर्ट का एक औपचारिक विवरण है।

Options :

Research Process

1. ✔ अनुसंधान प्रक्रिया

Research Problem

2. ✘ अनुसंधान समस्या

Data collection

3. ✘ आंकड़ा संग्रहण

Data Editing

4. ✘ डाटा एडिटिंग

Question Number : 3 Question Id : 7622116603 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is *not* covered under Intellectual Property Rights ?

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

Options :

Copyrights

1. ✘ कॉपीराइट

Patents

2. ✘ पेटेंट

Trademarks

3. ✘ ट्रेडमार्क

Thesaurus

4. ✔ थिसॉरस

Question Number : 4 Question Id : 7622116604 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A bar chart or graph which shows the frequency of occurrence of each value of the variable which is being analysed is termed as :

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

Options :

Bar chart

1. ✘ स्तंभ चार्ट के रूप में

Histogram

2. ✔ कालिकचित्र के रूप में

Candle stick

3. ✘ कैंडल स्टिक के रूप में

Tabulation

4. ✘ सारणीयन के रूप में

Question Number : 5 Question Id : 7622116605 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The depth of research can be judged by :

शोध की गहराई का अंदाजा इससे लगाया जा सकता है :

Options :

Title of the research work

1. ✘ शोध कार्य का शीर्षक

Objective of research

2. ✔ शोध का उद्देश्य

Total expenditure of research

3. ✘ शोध का कुल खर्च

Duration of research

4. ✘ शोध की अवधि

Question Number : 6 Question Id : 7622116606 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The mean of a set scores is 50 and standard deviation is 10. If the score of each student is doubled the new median will be :

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

Options :

Remain unchanged

1. ✘ अपरिवर्तित रहेगी

Increase by double

2. ✔ दोगुना वृद्धि होगी

Decrease by half

3. ✘ आधा कम होगी

Become equal to the mean

4. ✘ माध्य के बराबर होगी

Question Number : 7 Question Id : 7622116607 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is *not* a type of research question ?

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

Options :

Predicting an outcome

1. ✘ परिणाम की भविष्यवाणी

Evaluating a phenomenon

2. ✘ घटना का मूल्यांकन

Developing good practice

3. ✘ अच्छी प्रक्रिया को बढ़ाना

A hypothesis

4. ✔ एक परिकल्पना

Question Number : 8 Question Id : 7622116608 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

All of the following are types of non-probability sampling techniques except :

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

Options :

Purposive sampling

1. ✘ सोद्देश्य प्रतिदर्श के

Snowball sampling

2. ✘ स्नोबॉल प्रतिदर्श के

Convenience sampling

3. ✘ सुविधा प्रतिदर्श के

Random sampling

4. ✓ यादृच्छिक प्रतिदर्श के

Question Number : 9 Question Id : 7622116609 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

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

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

Options :

Chi-square test

1. ✗ काई-स्क्वेयर परीक्षण

t-test

2. ✗ टी-परीक्षण

ANOVA

3. ✗ एनोवा

Factorial analysis

4. ✓ क्रमगुणित विश्लेषण

Question Number : 10 Question Id : 7622116610 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

P-value stands for :

पी० मूल्य का अभिप्राय है :

Options :

Probability value

1. ✓ प्रायिकता मूल्य

Preference value

2. ✗ वरीयता मूल्य

Pre-determined value

3. ✗ पूर्व-निश्चित मूल्य

Prescribed value

4. ✘ निर्धारित मूल्य

Question Number : 11 Question Id : 7622116611 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In the process of conducting research "Formulation of Hypothesis" is followed by :

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

Options :

Statement of Objectives

1. ✘ उद्देश्यों का विवरण

Analysis of Data

2. ✘ आँकड़े का विश्लेषण

Selection of Research Tools

3. ✔ अनुसंधान साधनों का चयन

Collection of Data

4. ✘ आँकड़े का संग्रह

Question Number : 12 Question Id : 7622116612 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Longitudinal studies of cohort groups

दस्ता समूहों का अनुदैर्घ्य अध्ययन है :

Options :

Study the same people over time

1. ✘ कुछ समय पर एक ही लोगों का अध्ययन

Use panel members as participants

2. ✘ भागीदार के रूप में पेनल सदस्यों का उपयोग

Study attitudes at a single point in time

3. ✘ एक समय पर दृष्टिकोण का अध्ययन

Use different participants for each sequenced measurement

4. ✓ प्रत्येक अनुक्रमित मापन हेतु विभिन्न भागीदारों का उपयोग

Question Number : 13 Question Id : 7622116613 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A deductive theory is one that :

निगमनिक सिद्धांत है :

Options :

Allows theory to emerge out of the data

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

Involves testing an explicitly defined hypothesis

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

Allows for findings to feed back into the stock of knowledge

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

Uses qualitative methods whenever possible

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

Question Number : 14 Question Id : 7622116614 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Meta data is the data that :

मेटा डाटा वह डाटा है जो :

Options :

Distribute other data

1. ✘ अन्य डाटा को बाँटता है

Collect other data

2. ✘ अन्य डाटा को एकत्रित करता है

Describes the other data

3. ✓ डाटा को बताता है

Destroy the data

4. ✘ डाटा को नष्ट करता है

Question Number : 15 Question Id : 7622116615 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Randomization is done to :

यादृच्छिकीकरण की जाती है :

Options :

Increase bias

1. ✘ अभिनति को बढ़ाने के लिए

Reduce bias

2. ✔ अभिनति को कम करने के लिए

For making hypothesis

3. ✘ परिकल्पना करने के लिए

To increase drug efficacy

4. ✘ औषधि क्षमता को बढ़ाने के लिए

Question Number : 16 Question Id : 7622116616 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

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

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

Options :

Qualitative Research

1. ✔ गुणात्मक अनुसंधान में

Quantitative Research

2. ✘ परिमाणात्मक अनुसंधान में

Experimental Research

3. ✘ प्रयोगात्मक अनुसंधान में

Descriptive Research

4. ✘ वर्णनात्मक अनुसंधान में

Question Number : 17 Question Id : 7622116617 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

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

Options :

Policies and Programme evaluation research

1. ✓ नीतियों एवं कार्यक्रम मूल्यांकन अनुसंधान के

Opportunity for exploring the facts

2. ✘ तथ्यों का पता लगाने हेतु अवसर के

Categorizing data

3. ✘ आँकड़ा को श्रेणीबद्ध करने के

Understanding the culture

4. ✘ संस्कृति को समझने के

Question Number : 18 Question Id : 7622116618 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

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

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

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

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

Statement B : Variables are not related to theoretical concepts.

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

Options :

Both the statements are true

1. ✘ दोनों कथन सत्य हैं

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

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

Both the statements are false

3. ✘ दोनों कथन असत्य हैं

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

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

Question Number : 19 Question Id : 7622116619 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is not a category of legal research ?

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

Options :

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

Question Number : 20 Question Id : 7622116620 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Rejection of null hypothesis when it is true is called :

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

Options :

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

Question Number : 21 Question Id : 7622116621 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a research study one of the variables selected was (students') parents' occupation such as business, farming, service etc. What level of measurement is this ?

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

Options :

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

Question Number : 22 Question Id : 7622116622 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is standard error ?

मानक त्रुटि क्या है ?

Options :

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

Question Number : 23 Question Id : 7622116623 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is helpful in determining sample size ?

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

Options :

Russell 2000 index

1. ✘ रसेल 2000 सूचकांक

Cochran's formula

2. ✔ कोकरन का नियम

Tussad's formula

3. ✘ तुसाद का नियम

Spearman's formula

4. ✘ स्पीयरमैन का नियम

Question Number : 24 Question Id : 7622116624 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is not true about the case study method ?

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

Options :

It is an expensive method of research

1. ✘ यह एक महंगी पद्धति है

There are many chances of making errors

2. ✘ इसमें त्रुटि होने की बहुत संभावना होती है

It is mainly qualitative in nature

3. ✘ यह मुख्यतया गुणात्मक होता है

It is quantitative in nature

4. ✔ यह मात्रात्मक होता है

Question Number : 25 Question Id : 7622116625 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Read statement A and B and Choose the correct option :

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

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

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

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

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

Options :

Both A and B are true

1. ✘ क एवं ख दोनों सत्य हैं

A is true and B is false

2. ✔ क सत्य है तथा ख असत्य है

Both A and B are false

3. ✘ क एवं ख दोनों असत्य हैं

A is false but B is true

4. ✘ क असत्य है लेकिन ख सत्य है

Question Number : 26 Question Id : 7622116626 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

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

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

Options :

Cluster

1. ✘ समूह

Quota

2. ✘ कोटा

Systematic

3. ✘ योजनाबद्ध

Stratified

4. ✔ स्तरित

Question Number : 27 Question Id : 7622116627 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following type of research focuses on amending the prevailing situations ?

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

Options :

Action research

1. ✔ क्रियाविधि अनुसंधान

Experimental research

2. ✘ प्रयोगात्मक अनुसंधान

Fundamental research

3. ✘ मूलभूत अनुसंधान

Conclusive research

4. ✘ निर्णयात्मक अनुसंधान

Question Number : 28 Question Id : 7622116628 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

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

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

Options :

1. ✘ 8

2. ✔ 7

3. ✘ 6

Cannot tell on the basis of the information given

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

Question Number : 29 Question Id : 7622116629 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Qualitative research helps in collecting data under more situations.

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

Options :

Normal

1. ✘ सामान्य

Natural

2. ✔ प्राकृतिक

Experimental

3. ✘ प्रयोगात्मक

Artificial

4. ✘ कृत्रिम

Question Number : 30 Question Id : 7622116630 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Read statement A and B and choose the correct option :

कथन क एवं ख को पढ़िए तथा सही विकल्प चुनिए :

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

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

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

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

Options :

Both A and B are true

1. ✘ क एवं ख दोनों सत्य हैं

Statement A is true and but B is false

2. ✘ कथन क सत्य है लेकिन ख असत्य है

Both A and B are false

3. ✓ क एवं ख दोनों असत्य हैं

Statement A is false but B is true

4. ✘ कथन क असत्य है लेकिन ख सत्य है

Question Number : 31 Question Id : 7622116631 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which type of research focus on what will be ?

किस प्रकार का अनुसंधान क्या होगा पर फोकस करता है ?

Options :

Experimental

1. ✓ प्रयोगात्मक

Case study

2. ✘ वृत्त अध्ययन (केस स्टडी)

Survey

3. ✘ सर्वेक्षण

Ex-post facto

4. ✘ पूर्व प्रभावी

Question Number : 32 Question Id : 7622116632 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following should be up to date, complete and affordable for proper sampling ?

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

Options :

Sampling technique

1. ✘ प्रतिदर्श तकनीक

Sample frame

2. ✓ प्रतिदर्श फ्रेम

Respondents

3. ✖ प्रतिक्रिया दिखाने वाले

Tools for data collection

4. ✖ आँकड़ा संग्रह हेतु साधन

Question Number : 33 Question Id : 7622116633 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is a research design ?

अनुसंधान अभिकल्प क्या है ?

Options :

A way of conducting research that is not grounded in theory

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

The choice between using qualitative or quantitative methods

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

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

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

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

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

Question Number : 34 Question Id : 7622116634 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

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

यदि अध्ययन विश्वसनीय है, इसका मतलब है कि :

Options :

It was conducted by a reputed researcher who can be trusted

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

The measures devised for concepts are stable on different occasions

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

The findings can be generalized to other social settings

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

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

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

Question Number : 35 Question Id : 7622116635 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

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

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

Options :

Thesis Format

1. ✔ शोध प्रबन्ध प्रारूप

Copyright

2. ✘ कॉपीराइट

Patenting policy

3. ✘ पेटेंट नीति

Data sharing policy

4. ✘ डाटा शेयरिंग नीति

Question Number : 36 Question Id : 7622116636 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

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

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

Options :

Intuition

1. ✘ सहज बोध

Knowledge

2. ✘ ज्ञान

3. ✓ Energy

ऊर्जा

4. ✗ Theory

सिद्धान्त

Question Number : 37 Question Id : 7622116637 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following variables cannot be expressed in quantitative terms ?

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

Options :

Socio-economic status

1. ✗ सामाजिक आर्थिक स्थिति

Marital status

2. ✗ वैवाहिक स्थिति

Numerical aptitude

3. ✓ संख्यात्मक अभिरुचि

Professional aptitude

4. ✗ पेशेवर अभिरुचि

Question Number : 38 Question Id : 7622116638 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is *not* a citation style ?

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

Options :

A.P.A.

1. ✗ ए० पी० ए०

M.L.A.

2. ✗ एम० एल० ए०

Chicago

3. ✘ शिकागो

Ohio

4. ✔ ओहियो

Question Number : 39 Question Id : 7622116639 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is not a defining characteristics of non-doctrinal research ?

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

Options :

It is organized around legal principles and appellate court decisions.

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

It puts lesser emphasis upon doctrines.

2. ✘ यह सिद्धान्तों पर कम बल देता है।

It seeks to answer broader and numerous questions.

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

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

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

Question Number : 40 Question Id : 7622116640 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is *not* true about positivism ?

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

Options :

It is associated with Auguste Comte

1. ✘ यह अगस्ट कौंटे के साथ जुड़ा है

It denies metaphysical speculation

2. ✘ यह तत्वमीमांसिक अटकलबाजी की अवहेलना करता है

It emphasises on objectivity

3. ✘ यह वस्तुनिष्ठता पर जोर देता है

It is a method used in qualitative research

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

	Subject_&Area Concerned
Section Id :	762211134
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	60
Number of Questions to be attempted:	60
Section Marks:	180
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	762211134
Question Shuffling Allowed :	Yes

Question Number : 41 Question Id : 7622116641 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Let R and S be two relations with the following schema
R: (P, Q, R1, R2, R3)

S: (P, Q, S1, S2)

where, {P, Q} is the key for both schemas. Which of the following queries are equivalent?

I. $\Pi_P (R \bowtie S)$

II. $\Pi_P (R) \bowtie \Pi_{P,Q} (S)$

III. $\Pi_P (\Pi_{P,Q} (R) \cap \Pi_{P,Q} (S))$

IV. $\Pi_P (\Pi_{P,Q} (R) - (\Pi_{P,Q} (R) - \Pi_{P,Q} (S)))$

Options :

1. ✘ Only I and II

2. ✘ Only I and III

3. ✘ Only I, II and III

4. ✔ Only I, III and IV

Question Number : 42 Question Id : 7622116642 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Consider the relational schema given below, where eId of the relation dependent is a foreign key referring to empId of the relation employee. Assume that every employee has at least one associated dependent in the dependent relation.

employee (empId, empName, empAge)

dependent(depId, eId, depName, depAge)

Consider the following relational algebra query :

$\Pi_{\text{empId}}(\text{employee}) - \Pi_{\text{empId}}(\text{employee} \bowtie_{(\text{empId}=\text{eId}) \wedge (\text{empAge} \leq \text{depAge})} \text{dependent})$

The above query evaluates to the set of empIds of employees whose age is greater than that of

Options :

1. ✘ some dependent.

2. ✘ all dependents

3. ✘ some of his/her dependents

4. ✔ all of his/her dependents

Question Number : 43 Question Id : 7622116643 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Let R (A, B, C, D, E, P, G) be a relational schema in which the following functional dependencies are known to hold : $AB \rightarrow CD$, $DE \rightarrow P$, $C \rightarrow E$, $P \rightarrow C$ and $B \rightarrow G$. The relational schema R is :

Options :

1. ✘ in BCNF

2. ✘ in 3NF, but not in BCNF

3. ✔ not in 2NF

4. ✘ in 2NF, but not in 3NF

Question Number : 44 Question Id : 7622116644 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Database table by name Loan_Records is given below :

Borrower	Bank_Manager	Loan_Amount
Ramesh	Sunderajan	10000.00
Suresh	Rangopal	5000.00
Mahesh	Sunderajan	7000.00

What is the output of the following SQL query ?

```
SELECT COUNT(*)
```

```
FROM ((SELECT Borrower, Bank_Manager FROM Loan_Records) AS S
```

```
NATURAL JOIN (SELECT Bank_Manager, Loan_Amount FROM  
Loan_Records) AS T);
```

Options :

1. ✘ 3

2. ✘ 9

3. ✔ 5

4. ✘ 6

Question Number : 45 Question Id : 7622116645 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Consider the following relational schema:

EmployeeDetail (EmpId, FullName, ManagerID, DateofJoining)

EmployeeSalary (EmpID, Project, Salary)

Consider the following relational query on the above database:

```
SELECT Salary
FROM EmployeeSalary Empl
WHERE 2=(
    SELECT COUNT( DISTINCT ( Emp2.Salary))
    FROM EmployeeSalary Emp2
    WHERE Emp2.Salary > Empl. Salary
)
```

Assume that relations corresponding to the above schema are not empty. Which one of the following is the correct interpretation of the above query ?

Options :

1. ✘ find the highest salary from table
2. ✘ find the 2nd highest salary from table
3. ✔ find the 3rd highest salary from table
4. ✘ none of the three

Question Number : 46 Question Id : 7622116646 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the frame to be transmitted is 1101011011 and the CRC polynomial to be used for generating checksum is $x^4 + x + 1$, then what is the transmitted frame ?

Options :

1. ✘ 11010110111011
2. ✘ 11010110111101
3. ✔ 11010110111110
4. ✘ 11010110111001

Question Number : 47 Question Id : 7622116647 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Station A uses 32 byte packets to transmit messages to Station B using a sliding window protocol. The round trip time delay between A and B is 40 ms and the bottleneck bandwidth on the path A and B is 64 kbps. What is the optimal window size that A should use ?

Options :

1. ✘ 5
2. ✔ 10
3. ✘ 40
4. ✘ 80

Question Number : 48 Question Id : 7622116648 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Host X has IP address 192.168.1.97 and is connected through two routers R1 and R2 to another host Y with IP address 192.168.1.80. Router R1 has IP addresses 192.168.1.135 and 192.168.1.110. R2 has IP addresses 192.168.1.67 and 192.168.1.155. The netmask used in the network is 255.255.255.224.

Given the information above, how many distinct subnets are guaranteed to already exist in the network ?

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 6

Question Number : 49 Question Id : 7622116649 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Consider different activities related to email :

m1 : Send an email from a mail client to a mail server

m2 : Download an email from mailbox server to a mail client

m3 : Checking email in a web browser

Which is the application level protocol used in each activity ?

Options :

1. ✘ m1 : HTTP m2: SMTP m3: POP

2. ✘ m1 : SMTP m2: FTP m3: HTTP

3. ✔ m1 : SMTP m2: POP m3: HTTP

4. ✘ m1 : POP m2: SMTP m3 : IMAP

Question Number : 50 Question Id : 7622116650 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Classless Inter-domain Routing (CIDR) receives a packet with address 131.23.151.76. The router's routing table has the following entries :

Prefix	Output Interface Identifier
131.16.0.0/12	3
131.28.0.0/14	5
131.19.0.0/16	2
131.22.0.0/15	1

The identifier of the output interface on which this packet will be forwarded is

.....

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 5

Question Number : 51 Question Id : 7622116651 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What will be the output (in decimal) of following arithmetic operations $(+70) + (+80)$ and $(-70) + (-80)$ with binary numbers in signed-2's complement representation. Use eight bits to accommodate each number together with sign bit.

Options :

1. ✘ +106 and -106

2. ✔ -106 and +106

3. ✘ +150 and -150

4. ✘ -150 and +150

Question Number : 52 Question Id : 7622116652 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The content of a 4-bit register is initially 1101. The register is shifted six times to the right with serial input being 101101. What is the content of the register now ?

Options :

1. ✔ 1011

2. ✘ 1101

3. ✘ 0000

4. ✘ 0110

Question Number : 53 Question Id : 7622116653 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Simplification of Boolean function $F(A, B, C, D) = \Sigma(0,2,4,5,6,7,8,10,13,15)$ is :

Options :

1. ✘ $CD + B'D' + A'D'$
2. ✘ $BD + B'D' + A'C'$
3. ✔ $BD + B'D' + A'B$
4. ✘ None of the three

Question Number : 54 Question Id : 7622116654 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A digital computer has memory unit of $64K \times 16$ and a cache memory of size $1K$ words. The cache uses direct mapping with a block size of four words. How many bits are there in tag, block and word fields.

Options :

1. ✘ 6,8,3
2. ✘ 5,9,2
3. ✘ 7,5,2
4. ✔ 6,8,2

Question Number : 55 Question Id : 7622116655 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The Boolean function with the Karnaugh map

		AB			
	CD	00	01	11	10
00		0	1	1	0
01		0	1	1	1
11		1	1	1	1
10		0	1	1	0

is :

Options :

1. ✔ $(A+C).D+B$

2. ✘ $(A+B).C+D$

3. ✘ $(A+D).C+B$

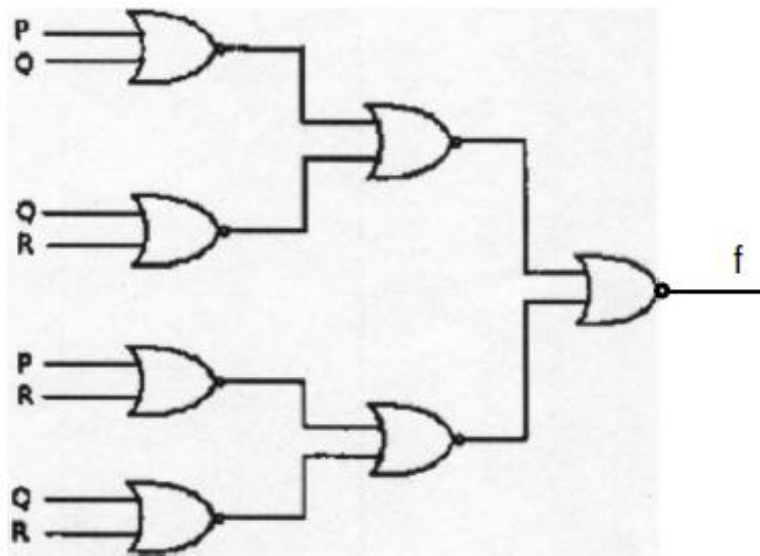
4. ✘ $(A+C).B+D$

Question Number : 56 Question Id : 7622116656 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is the Boolean expression for the output f of the combinational logic circuit of NOR gates given below ?



Options :

1. ✘ $(P+R)' + Q$

2. ✘ $(P+Q)' + R$

3. ✔ $(P+Q+R)'$

4. ✘ $P+(Q+R)'$

Question Number : 57 Question Id : 7622116657 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is correct about the statements given below :

I : All operators can be overloaded in C++.

II : We can change the basic meaning of an operator in C++.

Options :

1. ✘ Only I is true
2. ✔ Both I and II are false
3. ✘ Only II is true
4. ✘ Both I and II are true

Question Number : 58 Question Id : 7622116658 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which software testing is the re-execution of some subset of tests that have already been conducted to ensure the changes that are not propagated ?

Options :

1. ✘ Unit testing
2. ✔ Regression testing
3. ✘ Integration testing
4. ✘ Thread-based testing

Question Number : 59 Question Id : 7622116659 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is used for implementing the changes in existing or new requirements of user in software maintenance ?

Options :

1. ✘ Preventive maintenance
2. ✔ Perfective maintenance

3. ✘ Corrective maintenance

4. ✘ Adaptive maintenance

Question Number : 60 Question Id : 7622116660 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What will happen if a class is *not* having any name ?

Options :

1. ✘ It cannot have a destructor

2. ✘ It cannot have a constructor

3. ✘ It is not allowed

4. ✔ Both (1) and (2)

Question Number : 61 Question Id : 7622116661 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a binary tree with n nodes, every node has an odd number of descendants. Every node is considered to be its own descendant. What is the number of nodes in the tree that have exactly one child ?

Options :

1. ✔ 0

2. ✘ 1

3. ✘ $(n-1)/2$

4. ✘ $2n+1-1$

Question Number : 62 Question Id : 7622116662 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Let X be a problem that belongs to the class NP. Then which one of the following is TRUE ?

Options :

1. ✘ There is no polynomial time algorithm for X
2. ✘ If X can be solved deterministically in polynomial time, then $P = NP$
3. ✔ If X is NP-hard, then it is NP-complete
4. ✘ X may be undecidable

Question Number : 63 Question Id : 7622116663 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
 No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The running time of an algorithm is represented by the following recurrence relation :

$$T(n) = n, \quad \text{if } n \leq 3$$

$$T(n) = T(n/3) + cn, \quad \text{otherwise}$$

Which one of the following represents the time complexity of the algorithm ?

Options :

1. ✔ $\Theta(n)$
2. ✘ $\Theta(n \log n)$
3. ✘ $\Theta(n^2)$
4. ✘ $\Theta(3n \log n)$

Question Number : 64 Question Id : 7622116664 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
 No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The result of evaluating the postfix expression $546+*493/+*$ is ?

Options :

1. ✘ 600
2. ✔ 350
3. ✘ 650

4. ✘ 588

Question Number : 65 Question Id : 7622116665 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Depth First Search is equivalent to which of the traversal in the Binary Trees ?

Options :

1. ✔ Pre-order Traversal
2. ✘ Post-order Traversal
3. ✘ Level-order Traversal
4. ✘ In-order Traversal

Question Number : 66 Question Id : 7622116666 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is TRUE for any simple connected undirected graph with more than 2 vertices ?

Options :

1. ✘ No two vertices have the same degree
2. ✔ At least two vertices have the same degree
3. ✘ At least three vertices have the same degree
4. ✘ All vertices have the same degree

Question Number : 67 Question Id : 7622116667 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is the number of swaps required to sort n elements using selection sort, in the worst case ?

Options :

1. ✔ $\Theta(n)$

2. ✘ $\Theta(n \log n)$

3. ✘ $\Theta(n^2)$

4. ✘ $\Theta(\log n)$

Question Number : 68 Question Id : 7622116668 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The pre-order traversal sequence of a binary search tree is 30, 20, 10, 15, 25, 23, 39, 35, 42. Which one of the following is the post-order traversal sequence of the same tree ?

Options :

1. ✘ 10, 20, 15, 23, 25, 35, 42, 39, 30

2. ✘ 15, 10, 25, 23, 20, 42, 35, 39, 30

3. ✘ 15, 20, 10, 23, 25, 42, 35, 39, 30

4. ✔ 15, 10, 23, 25, 20, 35, 42, 39, 30

Question Number : 69 Question Id : 7622116669 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What will be the output of following source code :

```
int main()
{
    int i;
    i=1, 2, 3;
    printf("i = %d\n", i);
    getchar();
    return 0;
}
```

Options :

1. ✘ Error

2. ✓ 1

3. ✗ 3

4. ✗ 2

Question Number : 70 Question Id : 7622116670 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What will be the output of following source code :

```
int main()
{
float a[]={ 13.5,1.5,2.4,6.3,3.2};
float *j,*k;
j=a+3;
k=j-2;
printf("%f %f %d %f",*j,*k,j-k,*j-*k);
return 0;
}
```

Options :

1. ✗ 2.4 13.5 2 -11.1

2. ✗ 2.4 13.5 1 11.1

3. ✗ Error

4. ✓ 6.3 1.5 2 4.8

Question Number : 71 Question Id : 7622116671 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What will the function rewind() do ?

Options :

1. ✗ Reposition the file pointer to a character reverse.

2. ✘ Reposition the file pointer stream to end of file.
3. ✘ Reposition the file pointer to beginning of that line.
4. ✔ Reposition the file pointer to beginning of file.

Question Number : 72 Question Id : 7622116672 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What does the following declaration mean ?

```
int (*ptr)[ 10];
```

Options :

1. ✘ ptr is array of pointers to 10 integers
2. ✔ ptr is a pointer to an array of 10 integers
3. ✘ ptr is an array of 10 integers
4. ✘ ptr is an pointer to array

Question Number : 73 Question Id : 7622116673 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The correct syntax to use typedef for structure is :

Options :

```
typedef struct temp  
{  
    int a;  
} TEMP;
```

1. ✘

```
typedef struct  
{  
    int a;  
}TEMP;
```

2. ✘

```
struct temp
```

```
{
```

```
int a;
```

```
};
```

3. ✘ typedef struct temp TEMP;

4. ✔ all of the three

Question Number : 74 Question Id : 7622116674 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is the output of this C code ?

```
int main()
```

```
{
```

```
int x = 1;
```

```
int y = x == 1 ? getchar(): 2;
```

```
printf("%d\n", y);
```

```
return 0;
```

```
}
```

Options :

1. ✘ Compile time error

2. ✘ Whatever character getchar() function returns

3. ✔ ASCII value of character getchar() function returns

4. ✘ 2

Question Number : 75 Question Id : 7622116675 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Comment on the following two operations.

```
int *a[] = {{1, 2, 3}, {1, 2, 3, 4}}; //1
```

```
int b[4][4] = {{1, 2, 3}, {1, 2, 3, 4}}; //2
```

Options :

1. ✘ 1 will work, 2 will not
2. ✘ 1 and 2, both will work
3. ✔ 1 won't work, 2 will work
4. ✘ Neither of them will work

Question Number : 76 Question Id : 7622116676 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following statement(s) is/are correct ?

- I The value stored in the CPU register can always be accessed faster than that stored in memory.
- II A register storage class variable will always be stored in a CPU register.

Options :

1. ✔ Only I is correct
2. ✘ Only II is correct
3. ✘ Both I & II are correct
4. ✘ Both I & II are incorrect

Question Number : 77 Question Id : 7622116677 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is the output of the following program

```
int main(){
    register int a=10;
    int *p;
    p=&a;
    printf("%0u",p);
    return 0;
}
```

Options :

1. ✓ Compiler Error

2. ✗ Address of a

3. ✗ 10

4. ✗ None of the three

Question Number : 78 Question Id : 7622116678 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The complexity class P consists of all the decision problems that can be solved by
..... using polynomial amount of computation time.

Options :

1. ✗ Push Down automata

2. ✗ DFA

3. ✗ N DFA

4. ✓ Deterministic Turing machine

Question Number : 79 Question Id : 7622116679 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The ratio of number of input to the number of output in a mealy machine can be
given as :

Options :

1. ✓ 1

2. ✗ $n : n+1$

3. ✗ $n+1 : n$

4. ✗ None of the three

Question Number : 80 Question Id : 7622116680 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Consider X and Y are two languages over alphabet {0, 1} represented by regular expression $0^*(10^*)^*$ and $(0^* + 1^*)^*$ respectively. Which of the following is true ?

Options :

1. ✘ X is proper subset of Y
2. ✘ Y is proper subset of X
3. ✔ X=Y
4. ✘ None of the three

Question Number : 81 Question Id : 7622116681 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An LALR(1) parser for a grammar 'G' can have shift-reduce (S-R) conflicts if and only if :

Options :

1. ✘ the SLR(1) parser for G has S-R conflicts
2. ✘ the LR(0) parser for G has S-R conflicts
3. ✔ the LR(1) parser for G has S-R conflicts
4. ✘ the LALR(1) parser for G has reduce-reduce conflicts

Question Number : 82 Question Id : 7622116682 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Consider the translation scheme shown below

$$\begin{aligned} S &\rightarrow TR \\ R &\rightarrow + T \{ \text{print} ('+'); \} R \mid \epsilon \\ T &\rightarrow \text{num} \{ \text{print} (\text{num.val}); \} \end{aligned}$$

Here num is a token that represents an integer and num.val represents the corresponding integer value. For an input string '9+5+2', this translation scheme will print

Options :

1. ✘ 9+5+2

2. ✓ 95+2+

3. ✗ 952++

4. ✗ ++952

Question Number : 83 Question Id : 7622116683 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The number of tokens in the following C statement is `printf("i=%d, &i=%x", i&i);`

Options :

1. ✗ 13

2. ✗ 6

3. ✗ 10

4. ✓ 9

Question Number : 84 Question Id : 7622116684 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The grammar $A \rightarrow AA \mid (A) \mid E$ is *not* suitable for predictive-parsing because the grammar is :

Options :

1. ✗ Ambiguous

2. ✓ Left recursive

3. ✗ Right recursive

4. ✗ An operator grammar

Question Number : 85 Question Id : 7622116685 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Suppose there are six files F1, F2, F3, F4, F5, F6 with corresponding sizes 150 KB, 225 KB, 75 KB, 60 KB, 275 KB and 65 KB respectively. The files are to be stored on a sequential device in such a way that optimizes access time. In what order should the files be stored ?

Options :

1. ✘ F5, F2, F1, F3, F6, F4
2. ✘ F1, F2, F3, F4, F5, F6
3. ✔ F4, F6, F3, F1, F2, F5
4. ✘ F6, F5, F4, F3, F2, F1

Question Number : 86 Question Id : 7622116686 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the disk head is located initially at 32, find the number of disk moves required with FCFS if the disk queue of I/O blocks requests are 98, 37, 14, 124, 65, 67.

Options :

1. ✘ 239
2. ✘ 310
3. ✔ 321
4. ✘ 325

Question Number : 87 Question Id : 7622116687 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Page fault frequency in an operating system is reduced when the :

Options :

1. ✘ processes tend to be of an equal ratio of the I/O-bound and CPU-bound
2. ✘ size of pages is increased
3. ✔ locality of reference is applicable to the process
4. ✘ processes tend to be CPU-bound

Question Number : 88 Question Id : 7622116688 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Consider the following C program.

```
#include<stdio.h>

struct Ournode{
char x,y,z;
};

int maint(){
struct Ournode p = {'1', '0', 'a'+2};
struct Ournode *q = &p;
printf("%c, %c", *((char*)q+1), *((char*)q+2));
return 0;
}
```

The output of this program is :

Options :

1. ✓ 0, c
2. ✗ 0, a+2
3. ✗ '0', 'a+2'
4. ✗ '0', 'c'

Question Number : 89 Question Id : 7622116689 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A three dimensional array in 'C' is declared as `int A[x] [y][z]`. Here, the address of an item at the location `A[p][q][r]` can be computed as follows (where `w` is the word length of an integer) :

Options :

1. ✗ $\&A[0][0][0]+w(y * z * q + z * p + r)$
2. ✓ $\&A[0][0][0]+w(y * z * p + z * q + r)$

3. ✘ $\&A[0][0][0]+w(x * y * p + z * q + r)$

4. ✘ $\&A[0][0][0]+w(x * y * q + z * p + r)$

Question Number : 90 Question Id : 7622116690 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In general, in a recursive and non-recursive implementation of a problem (program) :

Options :

1. ✘ Both time and space complexities are better in recursive than in non-recursive program.

2. ✔ Both time and space complexities are better in non-recursive than in recursive program.

3. ✘ Time complexity is better in recursive version but space complexity is better in non-recursive version of the program.

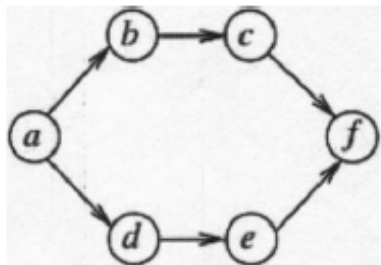
4. ✘ Space complexity is better in recursive version but time complexity is better in non- recursive version of the program.

Question Number : 91 Question Id : 7622116691 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Consider the following directed graph :



The number of different topological orderings of the vertices of the graph is.....

Options :

1. ✔ 6

2. ✘ 3

3. ✘ 5

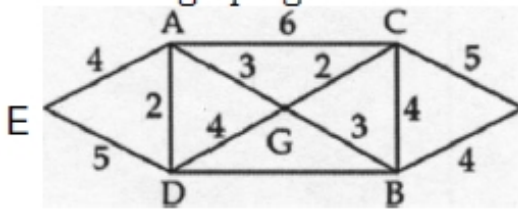
4. ✘ 1

Question Number : 92 Question Id : 7622116692 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Consider the graph given below :



Use Kruskal's algorithm to find a minimal spanning tree for the graph. The List of the edges of the tree in the order in which they are chosen is ? (1) AD, AE, AG, GC, GB, BF (2) GC, GB, BF, GA, AD, AE (3) GC, AD, GB, GA, BF, AE (4) AD, AG, GC, AE, GB, BF

Options :

1. ✘ (1)

2. ✘ (1), (2)

3. ✘ (1), (2), (3)

4. ✔ (1), (2), (3), (4)

Question Number : 93 Question Id : 7622116693 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Frequency of failure and network recovery time after a failure are measures of the of a network.

Options :

1. ✘ Performance

2. ✔ Reliability

3. ✘ Security

4. ✘ Feasibility

Question Number : 94 Question Id : 7622116694 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A channel has a bit rate of 4 kbps and one-way propagation delay of 20 ms. The channel uses stop and wait protocol. The transmission time of the acknowledgement frame is negligible. To get a channel efficiency of at least 50%, the minimum frame size should be :

Options :

1. ✘ 80 bytes

2. ✘ 80 bits

3. ✘ 160 bytes

4. ✔ 160 bits

Question Number : 95 Question Id : 7622116695 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the given wireless technologies used in IoT, consumes the least amount of power ?

Options :

1. ✘ Zigbee

2. ✔ Bluetooth

3. ✘ Wi-Fi

4. ✘ GSM/CDMA

Question Number : 96 Question Id : 7622116696 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A company needs to develop digital signal processing software for one of its newest inventions. The software is expected to have 40000 lines of code. The company needs to determine the effort in person-months needed to develop this software using the basic COCOMO model. The multiplicative factor for this model is given as 2.8 for the software development on embedded systems, while the exponentiation factor is given as 1.20. What is the estimated effort in person - months ?

Options :

1. ✓ 234.25
2. ✗ 932.50
3. ✗ 287.80
4. ✗ 122.40

Question Number : 97 Question Id : 7622116697 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A server crashes on the average once in 30 days, that is, the Mean Time Between Failures (MTBF) is 30 days. When this happens, it takes 12 hours to reboot it, that is, the Mean Time to Repair (MTTR) is 12 hours. The availability of server with these reliability data values is approximately :

Options :

1. ✗ 96.3
2. ✗ 97.3
3. ✓ 98.3
4. ✗ 99.3

Question Number : 98 Question Id : 7622116698 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The height of a binary tree is the maximum number of edges in any root to leaf path. The maximum number of nodes in a binary tree of height h is :

Options :

1. ✘ $2^h - 1$
2. ✘ $2^{h-1} - 1$
3. ✘ 2^{h+1}
4. ✔ $2^{h+1} - 1$

Question Number : 99 Question Id : 7622116699 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is/are true ?

Options :

1. ✘ calloc() allocates the memory and also initializes the allocated memory to zero, while memory allocated using malloc() has random data.
2. ✘ malloc () and memset() can be used to get the same effect as calloc().
3. ✘ calloc() takes two arguments, but malloc() takes only 1 argument.
4. ✔ all of the three

Question Number : 100 Question Id : 7622116700 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In case of using abstract class or function overloading, which function is supposed to be called first ?

Options :

1. ✘ Local function
2. ✔ Function with highest priority in compiler
3. ✘ Global function
4. ✘ Function with lowest priority because it might have been halted since long time, because of low priority