

TS SET

Notations :

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

Subject Name :	COMPUTER SCIENCE & APPLICATIONS
Duration :	180
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?	Yes
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

Group 1

Group Number :	1
Group Id :	51714482
Group Maximum Duration :	0
Group Minimum Duration :	180
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

Paper I

Section Id :	517144163
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	42
Number of Questions to be attempted :	42
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	517144502
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 1 Question Id : 51714412328 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No Correct Marks : 2 Wrong Marks : 0

Which learning style is associated with understanding information through patterns and relationships?

ఏ అభ్యాస శైలి నమూనాల భాంధవ్యాల ద్వారా సమాచారాన్ని అర్థం చేసుకొనుటతో అనుబంధించబడినది?

Options :

1. ✘ Visual
దృశ్య
2. ✘ Auditory
శ్రవణ
3. ✘ Kinesthetic
కిన్‌స్టేటిక్
4. ✔ Logical
తార్కిక

Question Number : 2 Question Id : 51714412329 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No Correct Marks : 2 Wrong Marks : 0

In a traditional lecture-based classroom, who primarily controls the flow of information?

సాంప్రదాయక ఉపన్యాస ఆధార తరగతి గదిలో సమాచార ప్రవాహాన్ని నియంత్రించునది ఎవరు?

Options :

1. ✘ Students
విద్యార్థులు

2. ✘ Peers
తోటివారు

3. ✘ Educational technology
విద్యావిషయ సాంకేతికత

4. ✔ Teacher
బోధకుడు

Question Number : 3 Question Id : 51714412330 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No Correct Marks : 2 Wrong Marks : 0

How do support materials contribute to effective teaching?
మద్దతు పదార్థాలు సమర్థ భోదనకు ఎలా సహకరిస్తాయి?

Options :

1. ✘ By replacing the need for teacher involvement.
బోధకుని ప్రమేయపు అవసరంతో భర్తీ చేయుట ద్వారా

2. ✘ By providing a distraction-free environment.
పరధ్యానంలేని వాతావరణం కలిగించుట ద్వారా

3. ✔ By facilitating varied learning experiences.
వివిధ అభ్యాస అనుభవాలను సులభతరం చేయుట ద్వారా

By automating assessment and grading.

4. ✘ మదింపు, గ్రేడింగు స్వయం చాలకం చేయుట ద్వారా

Question Number : 4 Question Id : 51714412331 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No Correct Marks : 2 Wrong Marks : 0

The term "elective courses" in a choice-based education system refers to courses that:

ఎంపిక ఆధార విద్యాపద్ధతిలో ఎన్నుకొనే కోర్సులు అనగా ఈ దిగువ కోర్సులు

Options :

1. ✘ Are mandatory for all students
అందరు విద్యార్థులకు తప్పనిసరి

2. ✘ Are chosen by teachers for students
విద్యార్థుల కొరకు బోధకులను ఎంపిక చేస్తారు

3. ✔ Students can choose based on their preferences
విద్యార్థులు వారి ప్రాధాన్యతల ద్వారా ఎంపిక చేస్తారు

4. ✘ Are only related to physical education and sports
శారీరక విద్య, క్రీడలకు మాత్రమే సంబంధించినది

Question Number : 5 Question Id : 51714412332 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

**Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No
Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No
Correct Marks : 2 Wrong Marks : 0**

Which of the following is an example of ICT-based learning tool?

ఈ దిగువ వానిలో ఏది ICT-ఆధారిత అభ్యాస పరికరము

Options :

1. ✘ Whiteboard and marker
తెల్లబోర్డు మరియు మార్కరు
2. ✘ Chalk and blackboard
సుద్ద, నల్ల బోర్డు
3. ✘ Printed textbook
మూద్రించిన పాఠ్యాంశ పుస్తకము
4. ✔ Educational software on a tablet
టాబ్లెట్ పై విద్యా విషయ సాఫ్ట్‌వేర్

**Question Number : 6 Question Id : 51714412333 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No
Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No
Correct Marks : 2 Wrong Marks : 0**

Why is "replicable" an important feature of research?

ప్రతిరూపమైన అనునది ఎందువలన పరిశోధనా ముఖ్యలక్ష్యము

Options :

1. ✘

It allows researchers to keep their methods secret.

అది పరిశోధకులు తమ పద్ధతులను రహస్యంగా ఉంచటానికి ఉపయోగపడుతుంది

2. ✘

It ensures that research findings are applicable only to specific cases.

కొన్ని ప్రత్యేక కేసులలో మాత్రమే పరిశోధనా కనుగొనుటలు వర్తించేటట్లు చూస్తుంది

3. ✔

It allows other researchers to repeat the study to verify the results.

అది ఇతర పరిశోధకులు ఆ ఫలితాలను సరిచూచుటకు అధ్యయనం తిరిగి

చేయుటకువీలు కల్పిస్తుంది

4. ✘

It prevents other researchers from using similar methodologies.

ఇతర పరిశోధకులు అటువంటి పద్ధతులను వాడకుండా నిరోధిస్తుంది

Question Number : 7 Question Id : 51714412334 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No

Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Post-positivist researchers are more likely to:

పోస్ట్ పోజిటివిస్ట్ పరిశోధకులు ఎక్కువ సంభావ్యంగా

Options :

1. ✔

Completely disregard quantitative data

పూర్తిగా పరిణాత్మక దత్తాంశాన్ని నిర్లక్ష్యం చేస్తారు

2. ✘

Focus solely on subjective experiences

ఆత్మశయ అనుభవాలపై దృష్టి పెడతారు

Acknowledge their own biases and limitations in research
పరిశోధనలో తమ స్వంత పక్షపాతాలను, పరిమితులను గౌరవిస్తారు

3. ✘

Reject the need for peer review and validation
తోటివారి సమీక్ష, ధృవీకరణల అవసరాన్ని తిరస్కరిస్తారు

4. ✘

Question Number : 8 Question Id : 51714412335 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No
Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No
Correct Marks : 2 Wrong Marks : 0

The APA referencing style is primarily used in which academic disciplines?
APA రిఫరెన్సింగు శైలిని సాధారణంగా ఏ విద్యాసంబంధ శాస్త్రంలో ఉపయోగిస్తారు

Options :

1. ✓ Social sciences
సాంఘిక శాస్త్రాలు

2. ✘ Natural sciences
సహజ శాస్త్రాలు

3. ✘ Engineering
ఇంజనీరింగు

4. ✘ Medicine
మందు

Question Number : 9 Question Id : 51714412336 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No Correct Marks : 2 Wrong Marks : 0

How can ICT assist in the literature review process during research?
పరిశోధనలో గ్రంథ సమీక్షకు ICT ఎట్లు సహకరించ గలదు?

Options :

1. ✘
By providing opportunities for plagiarism
ఈ గ్రంథ చౌర్యమునకు అవకాశాలు కల్పిస్తు
2. ✘
By allowing researchers to skip the literature review phase
ఈ పరిశోధకులకు గ్రంథ సమీక్ష దశను దాటేటట్లు చేయుట ద్వారా
3. ✔
By offering access to online databases and academic journals
ఈ ఆన్‌లైన్ దత్తాంశ స్తావరాలు, విద్యాపత్రికలకు ప్రవేశం కల్పించుట ద్వారా
4. ✘
By replacing the need for citations and references
అనులేఖనాలు. ప్రస్తావనలు, అవసరాన్ని భర్తీచేయుట ద్వారా

Question Number : 10 Question Id : 51714412337 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No Correct Marks : 2 Wrong Marks : 0

What is the function of an "Appendix" section in a thesis?

పరిశోధనా వ్యాసములో " అపెండిక్స్ " విభాగపు విధి ఏమి

Options :

1. ✘ To introduce the main research question
పరిశోధనా ముఖ్యప్రశ్నను పరిచయం చేయుట
2. ✔ To provide additional details that support the main text
ముఖ్యపాఠ్యగ్రంథానికి మద్దతుగా అదనపు వివరాలను ఇచ్చుట
3. ✘ To summarize the research findings
పరిశోధనా కనుగొనుటను సంగ్రహంగా చేయుట ద్వారా
4. ✘ To present the author's personal opinions
రచయిత వ్యక్తిగత భావనలను ఇచ్చుట ద్వారా

Sub-Section Number :

2

Sub-Section Id :

517144503

Question Shuffling Allowed :

No

Is Section Default? :

null

Question Id : 51714412338 Question Type : COMPREHENSION Sub Question Shuffling Allowed

: No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed

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

Question Numbers : (11 to 15)

Question Label : Comprehension

Note: Answer the questions 11-15 by reading the following passage:

గమనిక: క్రింద ఇవ్వబడిన సమాచారం ఆధారంగా Q. 11 నుండి Q. 15 ప్రశ్నలకు సమాధానాలను వ్రాయండి.

The Castle of Edinburgh is free (as appears to be the case with all garrisoned places in Great Britain) to the entrance of any peaceable person. So we went in, and found a large space enclosed within the walls, and dwellings for officers, and accommodation for soldiers, who were being drilled, or loitering about; and as the hill still ascends within the wall of the castle, we climbed to the summit, and there found an old soldier whom we engaged to be our guide. He showed us Mons Meg, a great old cannon, broken at the breech, but still aimed threateningly from the highest ramparts; and then he admitted us into an old chapel, said to have been built by a Queen of Scotland, the sister of Harold, King of England, and occupying the very highest part of the hill. It is the smallest place of worship I ever saw, but of venerable architecture, and of very solid construction.

ఇఎడిన్బర్గ్ కోటలోకి శాంతియుతంగా ఉండే ఏ వ్యక్తికైనా ప్రవేశం ఉచితం (గ్రేట్ బ్రిటన్లోని అన్ని రక్షిత ప్రదేశాలలో ఉన్నట్లుగా). కాబట్టి మేము లోపలికి వెళ్లి, గోడల లోపల ఒక పెద్ద స్థలాన్ని మరియు అధికారుల నివాసాలను, సైనికుల వసతిని చూసాము, డ్రిల్ చేస్తూ ఉన్న కొందరు సైనికుల్ని, అక్కడే తిరుగుతున్న మరికొందరి సైనికుల్ని చూసాము. కోట గోడ లోపల ఉన్న ఎత్తైన కొండ శిఖరం పైకి ఎక్కాము అక్కడ ఒక వృద్ధ సైనికుడిని మేము కలిసి అతనిని మా మర్గదర్శిగా నియమించుకున్నాము అతను మాకు మోన్స్ మెగ్, ఒక గొప్ప పాత ఫిరంగిని చూపించాడు. అది బ్రీచ్ వద్ద విరిగిపోయింది కాని ఇప్పటికీ ఎత్తైన ప్రాకారాల నుండి బెదిరించే లక్ష్యంతోనే ఉంది. ఆపై అతను మమ్మల్ని పాత ప్రార్థనా మందిరంలోకి తీసుకువెళ్లాడు. దీనిని ఇంగ్లండ్ రాజు హురార్డ్ సోదరి, స్కాట్లాండ్ రాణి నిర్మించిందని చెప్పాడు. ఈ కట్టడం కొండపై అత్యంత ఎత్తైన భాగాన నిర్మించబడింది. ఇది నేను చూసిన అతి చిన్న ప్రార్థనా స్థలం, కాని అది అద్భుతమైన వాస్తుశిల్పంతో కూడిన చాలా పటిష్టమైన నిర్మాణం.

Sub questions

Question Number : 11 Question Id : 51714412339 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

There is a _____ inside the boundary wall of the castle

కోట ప్రహారీ గోడ లోపల ఒక _____ ఉంది.

Options :

1. ✘ low hill
చిన్న కొండ
2. ✔ steep hill
ఎత్తైన కొండ
3. ✘ boulder
బండరాయి
4. ✘ rocky terrain
రాతి భూభాగం

Question Number : 12 Question Id : 51714412340 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

There is a _____ intimidating from over the lofty bulwark.

ఎత్తైన ప్రాకారాల మీద నుండి ఒక _____ బెదురుస్తున్నట్టుగా ఉంది

Options :

1. ✔ cannon
ఫిరంగి
2. ✘

platoon of soldiers'
సైనికుల బృందం

3. ✘ group of officers'
అధికారుల బృందం

4. ✘ group of guards'
గార్డుల సమూహం

Question Number : 13 Question Id : 51714412341 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

The old chapel is situated on the _____ of the hill.
పాత ప్రార్థనా మందిరం కొండ _____ ఉంది

Options :

1. ✘ foot
దిగువన

2. ✘ ridge
అంచున

3. ✔ summit
శిఖరం పైన

4. ✘ surroundings
పరిసరాలలో

Question Number : 14 Question Id : 51714412342 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

The author appreciates the chapel's _____
రచయిత ప్రార్థనా మందిరం యొక్క _____ని మెచ్చుకున్నారు

Options :

1. ✘ History
చరిత్ర

2. ✘ location
స్థలం

3. ✔ structural design
నిర్మాణ రూపకల్పన

4. ✘ ambience
వాతావరణం

Question Number : 15 Question Id : 51714412343 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

The author visited the castle, as a _____
రచయిత, ఆ కోటను ఒక _____ సందర్శించారు

Options :

1. ✓ tourist
పర్యాటకుడిగా
2. ✘ historian
చరిత్రకారుడుగా
3. ✘ soldier
సైనికుడుగా
4. ✘ archaeologist
పురావస్తు శాస్త్రవేత్తగా

Sub-Section Number : 3
Sub-Section Id : 517144504
Question Shuffling Allowed : Yes
Is Section Default? : null

Question Number : 16 Question Id : 51714412344 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Being an _____ communicator helps in resolving conflicts and misunderstandings in communication.

_____ కమ్యూనికేటర్ గా ఉండటం వలన కమ్యూనికేషన్ లో విభేదాలు మరియు అపార్థాలను పరిష్కరించడంలో సహాయపడుతుంది.

Options :

1. ✓ empathetic
సానుభూతిగల

2. ✗ inconsiderate
అలోచించని

3. ✗ observant
గమనించే

4. ✗ inconsistent
అస్థిరమైన

Question Number : 17 Question Id : 51714412345 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Providing clear instructions and guidance for activities in a classroom is a strategy for _____ communication

తరగతి గదిలో కార్యకలాపాలకు స్పష్టమైన సూచనలు మరియు మార్గదర్శకత్వం అందించడం అనేది _____ కమ్యూనికేషన్ లో ఒక పద్ధతి.

Options :

1. ✘ controlled
నియంత్రించబడిన

2. ✔ procedural
విధానపరమైన

3. ✘ unintended
అనాలోచిత

4. ✘ content
విషయ పరిజ్ఞాన

Question Number : 18 Question Id : 51714412346 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Being _____ is a key to establish a genuine relationship with a
person whose linguistic and cultural background is different

భాషా మరియు సాంస్కృతిక నేపథ్యం భిన్నంగా ఉన్న వ్యక్తితో చక్కటి సంబంధాన్ని
ఏర్పరచుకోవడానికి _____ గల వారు కావడం కీలకం

Options :

1. ✘ close- minded
సంకుచిత మనస్సు

2. ✔ open- minded
విశాల మనస్తత్వం కలవారు

self- reflexive
స్వీయ పరావర్తన

3. ✘

self- respectful
స్వీయ గౌరవం

4. ✘

Question Number : 19 Question Id : 51714412347 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In order to have excellent decision making skills, a person needs to have
_____ intelligence.

అద్భుతమైన నిర్ణయం తీసుకునే నైపుణ్యాలను కలిగి ఉండాలంటే, ఒక వ్యక్తికి
_____ పరమైన తెలివితేటలు ఉండాలి.

Options :

social
సామాజిక

1. ✘

psychological
మానసిక

2. ✘

spiritual
ఆధ్యాత్మిక

3. ✘

emotional
భావోద్వేగ

4. ✔

Question Number : 20 Question Id : 51714412348 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Radio and television are the examples of _____ media
రేడియో మరియు టెలివిజన్ _____ మాధ్యమాలకు ఉదాహరణలు

Options :

1. ✓ electronic
విద్యుత్కణ
2. ✗ print
ముద్రణ
3. ✗ social
సామజిక
4. ✗ traditional
సంప్రదాయకమైన

Question Number : 21 Question Id : 51714412349 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

8, 4, 4, 6, 12, 30, _____

Options :

1. ✘ 75

2. ✘ 95

3. ✔ 90

4. ✘ 105

Question Number : 22 Question Id : 51714412350 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

EUILN, DWFPI, ___ CXEQH, GSKJP

Options :

1. ✔ FTJKO

2. ✘ FUILM

3. ✘ EULIM

4. ✘ ETJKO

Question Number : 23 Question Id : 51714412351 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In a certain code language if the word FRAME = 48 and HURDLE =74 then
FIGMENT= ?
ఒక నిర్దిష్ట కోడ్ భాషలో FRAME = 48 మరియు HURDLE =74 పదం అయితే
FIGMENT= ?

Options :

1. ✘ 74

2. ✘ 89

3. ✘ 91

4. ✔ 81

Question Number : 24 Question Id : 51714412352 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Shiva starts a business with an investment of Rs. 1,00,000. Pradeep joins him after 3 months with an investment of Rs. 1,50,000. _____ is the Shiva's share in the total first year profit which was Rs. 51,000.

శివ రూ.1,00,000 పెట్టుబడితో వ్యాపారం ప్రారంభించాడు. ప్రదీప్ 3 నెలల తర్వాత రూ. 1,50,000 ల పెట్టుబడితో అతనితో చేరాడు. _ మొదటి సంవత్సరం

మొత్తం లాభంలో శివ వాటా రూ. 51,000 ఐన అందులో శివ వాటా _____

Options :

1. ✘ 21,000

2. ✘ 20,000

3. ✘ 27,000

4. ✔ 24,000

Question Number : 25 Question Id : 51714412353 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

A trader loses 20% when he sells a TV set for Rs. 12,000. The percentage he will gain by selling it for Rs. 20,000 is _____

ఒక వ్యాపారి టీవీ సెట్‌ను రూ.12,000.కి అమ్మినప్పుడు 20% నష్టపోతాడు. రూ. 20,000 కి అమ్మడం ద్వారా అతను పొందే లాభ శాతం. _

Options :

1. ✘ 15%

2. ✓ 33.33%

3. ✘ 16.66%

4. ✘ 25%

Question Number : 26 Question Id : 51714412354 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Statements:

No village is a city.

All cities are states.

ప్రకటనలు:

ఏ పల్లెటూరు నగరం కాదు.

అన్ని నగరాలు రాష్ట్రాలే.

Conclusions:

I. Some villages are cities.

II. Some cities are states.

తీర్మానాలు:

I. కొన్ని గ్రామాలు నగరాలు.

II. కొన్ని నగరాలు రాష్ట్రాలు

Options :

1. ✘ I follow

2. ✓ II follows

3. ✖ Both I & II follows.

4. ✖ Neither I nor II follows

Question Number : 27 Question Id : 51714412355 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In a class of 90 students, 60 opted Maths, 50 opted Science and 20 opted both.
How many students opted only Science?

90 మంది విద్యార్థులున్న తరగతిలో 60 మంది మ్యాథ్స్, 50 మంది సైన్స్, 20
మంది రెండింటినీ ఎంచుకున్నారు. ఎంతమంది విద్యార్థులు సైన్స్ ను మాత్రమే
ఎంచుకున్నారు?

Options :

1. ✖ 20

2. ✔ 30

3. ✖ 40

4. ✖ 50

Question Number : 28 Question Id : 51714412356 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

How is my son's daughter's sibling's mother related to my wife's only son?

నా కొడుకు కూతురు తోబుట్టువు తల్లికి, నా భార్య ఒక్కగానొక్క కొడుక్కి
బాంధవ్యం ఏమిటి?

Options :

1. ✘ Sister
2. ✘ Sister-in-law
3. ✔ Wife
4. ✘ Aunt

Question Number : 29 Question Id : 51714412357 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Which one of the following is signified by Udaharana of Anumana (Inference) in
Indian Logic?

ఈ క్రిందివాటిలో భారతీయ తర్కంలో అనుమాన (నిర్ధారణ) యొక్క ఉదాహరణ
సూచించునది ఏది?

Options :

1. ✘ Statement of reason
కారణం యొక్క ప్రకటన

2. ✘ Proposition to be proved
నిరూపించవలసిన ప్రతిపాదన

3. ✘ Conclusion proved
ముగింపు నిరూపించబడింది

4. ✔ Universal proposition along with an instance
ఉదాహరణతో పాటు సార్వత్రిక ప్రతిపాదన

Question Number : 30 Question Id : 51714412358 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Consider the following statements and choose the right option

దిగువ స్టేట్ మెంట్ లను పరిగణనలోకి తీసుకోండి మరియు సరైన ఆప్షన్ ఎంచుకోండి

a) Pratyaksha based on the perception of an object and Shruti based on hearing.

ఒక వస్తువు యొక్క గ్రహణం ఆధారంగా ప్రత్యక్ష, వినీకిడి ఆధారంగా శ్రుతి.

b) According to the Naiyayikas, inference is of two kinds, namely, Svārthanumana (Inference for one self) and Parārthanumana (Inference for the sake of others).

నయ్యాయికుల ప్రకారం, ఊహ రెండు రకాలు, అవి ఉ స్వార్థనుమన (ఒక ఆత్మకు ఊహ) మరియు పరార్థనుమన (ఇతరుల కోసం అంచనా).

Options :

1. ✘ Only (a)
(a) మాత్రమే
2. ✘ Only (b)
(b) మాత్రమే
3. ✔ Both (a) and (b)
(a) మరియు (b) రెండూ
4. ✘ Neither (a) nor (b)
(a) లేదా (b) రెండూ కాదు

Sub-Section Number :	4
Sub-Section Id :	517144505
Question Shuffling Allowed :	No
Is Section Default? :	null

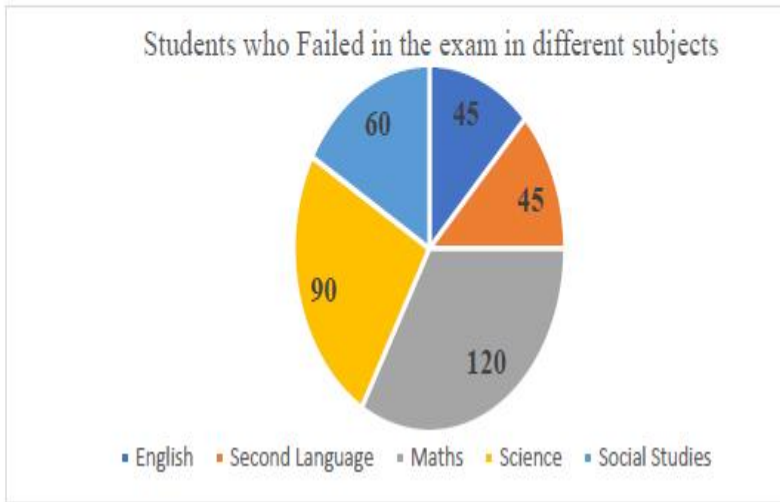
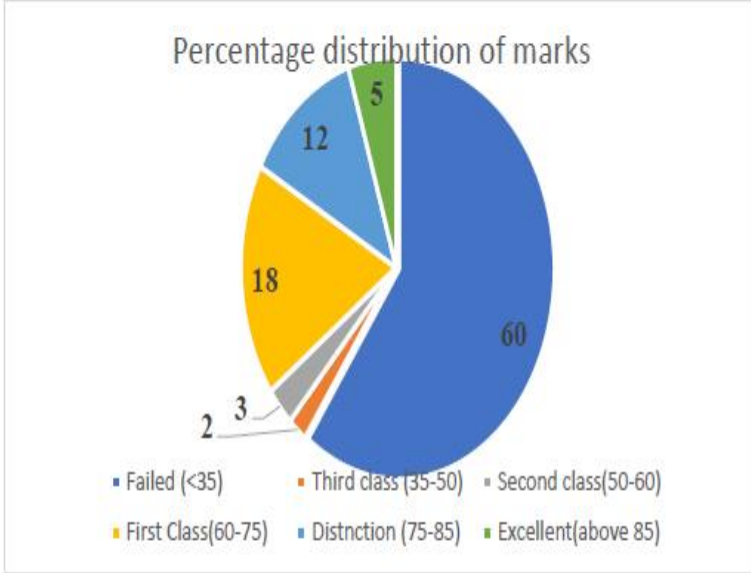
Question Id : 51714412359 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No Question Numbers : (31 to 35) Question Label : Comprehension

Note: Answer the questions Q. 31 to Q. 35 on the basis of the information given below.

గమనిక: క్రింద ఇవ్వబడిన సమాచారం ఆధారంగా Q. 31 నుండి Q. 35 ప్రశ్నలకు సమాధానాలు వ్రాయండి.

The following pie charts show the results of a board examination. Total number of students appeared for the exam is 77,000

క్రింది పై చార్టులు బోర్డు పరీక్ష ఫలితాలను చూపుతాయి. పరీక్షకు హాజరైన మొత్తం విద్యార్థుల సంఖ్య 77,000



Sub questions

Question Number : 31 Question Id : 51714412360 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

How many students failed in Mathematics in the board exam?

బోర్డు పరీక్షలో గణితంలో ఎంత మంది విద్యార్థులు ఫెయిల్ అయ్యారు?

Options :

1. ✘ 46200

2. ✔ 15400

3. ✘ 11550

4. ✘ 5775

Question Number : 32 Question Id : 51714412361 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

If 10% of the students who appeared, got 100% of the marks in Mathematics, then the number of students failed in Mathematics is how much percentage more than the number of students who got 100% of marks in the same subject?
హాజరైన విద్యార్థుల్లో 10% మంది గణితంలో 100% మార్కులు తెచ్చుకుంటే, అదే సబ్జెక్టులో 100% మార్కులు వచ్చిన విద్యార్థుల సంఖ్య కంటే గణితంలో ఫెయిల్ అయిన విద్యార్థుల సంఖ్య ఎంత శాతం ఎక్కువ?

Options :

1. ✘ 50%

2. ✔ 100%

3. ✘ 150%

4. ✘ 200%

Question Number : 33 Question Id : 51714412362 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

If 10% of the students who failed in science were made to pass by giving 5 grace marks, 40% of them secure more than 85% of the total marks in the five subjects as a result of these grace marks. The new number of students who got more than 85% of the marks is _____

సైన్స్ లో ఫెయిల్ అయిన వారిలో 10% మంది విద్యార్థులు 5 గ్రేస్ మార్కులు ఇచ్చి ఉత్తీర్ణులయ్యేలా చేస్తే, వారిలో 40% మంది ఈ గ్రేస్ మార్కుల ఫలితంగా ఐదు సబ్జెక్టుల్లో మొత్తం 85% కంటే ఎక్కువ మార్కులు సాధించారు. 85% కంటే ఎక్కువ మార్కులు పొందిన విద్యార్థుల కొత్త సంఖ్య _____

Options :

1. ✔ 4312

2. ✘ 3214

3. ✘ 1342

4. ✘ 2314

Question Number : 34 Question Id : 51714412363 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In the next year, the total number of students appearing for the exam increased by 10% and the number of students who failed in social studies is what percentage of the total students who appeared for the exam.

మరుసటి సంవత్సరంలో, పరీక్షకు హాజరయ్యే మొత్తం విద్యార్థుల సంఖ్య 10% పెరిగింది మరియు సోషల్ స్టడీస్ లో ఫెయిల్ అయిన విద్యార్థుల సంఖ్య పరీక్షకు హాజరైన మొత్తం విద్యార్థులలో ఎంత శాతం ఉంది.

Options :

1. ✘ 8 1/3 %

2. ✘ 9 1/11%

3. ✔ 10%

4. ✘ 11 1/9 %

Question Number : 35 Question Id : 51714412364 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

The number of students who failed in Mathematics in terms of percentage is
శాతం పరంగా గణితంలో ఫెయిల్ అయిన విద్యార్థుల సంఖ్య

Options :

1. ✘ 120

2. ✘ 100

3. ✘ 60

4. ✔ 20

Sub-Section Number :

5

Sub-Section Id :

517144506

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 36 Question Id : 51714412365 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

What is the full form of SSD?

ఎస్.ఎస్.డి పూర్తి నామము

Options :

1. ✘ Smart State Display

2.

✘ Smart State Drive

3. ✘ Solid State Display

4. ✔ Solid State Drive

Question Number : 37 Question Id : 51714412366 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

An unsolicited email message sent to many recipients at once is

అయాచిత ఇ మెయిలు వార్తను చాలా మందికి ఒకేసారి పంపించుటను

Options :

1. ✘ Virus

2. ✘ Attack

3. ✔ Spam

4. ✘ Memes

Question Number : 38 Question Id : 51714412367 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Which of the following is a digital initiative for Robotics Outreach Project.
రోబోటిక్సు ఔట్‌రీచ్ ప్రాజెక్టు ఈ దిగువది ఒక డిజిటల్ ఇనిషియేటివ్

Options :

1. ✘ e-Vidwan
ఇ- విద్వాన్

2. ✔ e-Yantra
ఇ- యంత్ర

3. ✘ e-Kalpa
ఇ- కల్ప

4. ✘ None of the above
పైవేవి కావు

Question Number : 39 Question Id : 51714412368 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Firewalls are used to protect a communication network system against
ఒక వార్త నెట్‌వర్క్‌ను ఈ దిగువ నుండి రక్షించుటకు ఫైర్‌వాల్యును ఉపయోగింతురు

Options :

1. ✘ Virus attacks
వైరస్ దాడులు
2. ✔ Unauthorized attacks
అనధికార దాడులు
3. ✘ Data driven attacks
డేటా ఆధారిత దాడులు
4. ✘ Fire-attacks
ఫైర్ దాడులు

**Question Number : 40 Question Id : 51714412369 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

URL stands for
యూ.ఆర్.ఎల్ అనగా

Options :

1. ✘ Universal Resource Location
2. ✘ Universal Response Locator
- 3.

✘ ✘ Unified Response Location

4. ✔ Uniform Resource Locator

Question Number : 41 Question Id : 51714412370 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

Designing self-sustaining systems is a viable path towards long-term progress.

దీర్ఘకాల ప్రగతికి, స్వయం నిలకడ గల పద్ధతులను డిజైను చేయుట

Options :

1. ✘ Irreversible and flexible
అిప్పికొట్టలేనిది, అనువైనది

2. ✔ Reversible and flexible
అిప్పికొట్టగలది, అనువైనది

3. ✘ Reversible and inflexible
అిప్పికొట్టగలది, అనువైనది కాదు

4. ✘ Immutable and unchangeable
మార్పులేనిది. మార్పుచేయలేనిది

Question Number : 42 Question Id : 51714412371 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

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

Correct Marks : 2 Wrong Marks : 0

Which of the following agents is responsible for turning the Taj Mahal yellow?

తాజ్‌మహలును పసుపు పచ్చగా మార్చు వస్తువు

Options :

1. ✘ Sulphur
సల్ఫర్

2. ✘ Chlorine
క్లోరిన్

3. ✔ Sulphur dioxide
సల్ఫర్ డై ఆక్సైడ్

4. ✘ Nitrogen dioxide
నైట్రోజన్ డై ఆక్సైడ్

Question Number : 43 Question Id : 51714412372 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Why wind energy is considered a conventional source of energy?

గాలి శక్తిని ఎందువలన సంప్రదాయక శక్తి వనరుగా భావించేదరు?

Options :

1. ✘ as it can rotate a windmill
అది గాలి యంత్రాన్ని తిప్పగలదు

2. ✘ as it can help in lifting water
అది నీటిని పైకి పంపగలదు

3. ✔ as it is readily available and used for a long time
అది వెంటనే దొరకును. దీర్ఘకాలం ఉపయోగించవచ్చును.

4. ✘ As it is produced due to uneven heating of the Earth
భూమి అసమానంగా వేడేక్కుట వలన అది ఉత్పత్తి అగును

Question Number : 44 Question Id : 51714412373 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No
Correct Marks : 2 Wrong Marks : 0

International Day of Natural Disaster Reduction is celebrated on.....
జాతీయ విపత్తు తగ్గింపు అంతర్జాతీయ దినము వేడుక చేసుకొను రోజు

Options :

1. ✘ June 15
జూన్ 15

2. ✘ March 5
మార్చి 5

3. ✓ October 13
అక్టోబరు 13

4. ✘ September 13
సెప్టెంబరు 13

Question Number : 45 Question Id : 51714412374 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In which year the National Environment Protection Act was passed in India?
ఇండియాలో జాతీయ వాతావరణ రక్షణ చట్టాన్ని అనుమతించిన సంవత్సరం?

Options :

1. ✘ 1974

2. ✘ 1981

3. ✓ 1986

4. ✘ 1995

Question Number : 46 Question Id : 51714412375 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Which is the first Open University in India?

ఇండియాలో మొదటి సార్వత్రిక విశ్వవిద్యాలయము

Options :

1. ✓ Andhra Pradesh Open University
ఆంధ్రప్రదేశ్ సార్వత్రిక విశ్వవిద్యాలయము

2. ✘ Yashwantrao Chavan Maharashtra Open University
యశ్వంత రావు చవన్ మహారాష్ట్ర సార్వత్రిక విశ్వవిద్యాలయము

3. ✘ Indira Gandhi National Open University
ఇందిరా గాంధీ జాతీయ సార్వత్రిక విశ్వవిద్యాలయము

4. ✘ Nalanda Open University
నలందా సార్వత్రిక విశ్వవిద్యాలయము

Question Number : 47 Question Id : 51714412376 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What is the full form of ABC as per the NEP 2020?

NEP 2020 ప్రకారము ABC అనగా

Options :

1.

✘ Academic Basic Certificate.

2. ✘ Annual Basic Certificate.

3. ✘ Annual Bank of Credits

4. ✔ Academic Bank of Credits

Question Number : 48 Question Id : 51714412377 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

The purpose of value education is best served by focusing on...

ఈ క్రింది దానిపై దృష్టి పెడితే విలువ విద్య యొక్క ఉద్దేశము చక్కగా నేరవేరుతుంది

Options :

1. ✘ Cultural practices prevailing in the society.
సమాజములో ఉన్న సాంస్కృతిక ఆచరణలు

2. ✘ Norms of conduct laid down by a social group
ఒక సమాజ సమూహము పెట్టిన నడవడి నియమవళి

3. ✔ Concern for human values.
మానవ విలువలకు ఆందోళన

Religious,moral practices and instructions

మత, నీతి ఆచరణాలు, ఆదేశాలు

4. ✘

Question Number : 49 Question Id : 51714412378 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

The best way for providing value education is through?

విలువ విద్య అందించుటకు సరియైన పద్ధతి

Options :

Discussions on scriptural texts

1. ✘ వ్రాత గ్రంథాలపై చర్చలు

Lectures/discourses on values

2. ✘ విలువలపై ఉపన్యాసాలు, ప్రసంగాలు

Seminars / symposia on values

3. ✘ విలువలపై సదస్సులు/ గోష్టిలు

Mentoring / reflective sessions on values

4. ✔ విలువలపై హితోప దేశ/ ప్రతిబింబ సమావేశాలు

Question Number : 50 Question Id : 51714412379 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

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

Correct Marks : 2 Wrong Marks : 0

The full form of SAMVAY is.....

SAMVAY పూర్తి రూపము

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

Options :

1. School Assessment Matrix for Vocational Analysis of Youth
2. Skill Assessment Matrix for Vocational Analysis of Youth
3. Skill Accreditation Matrix for Vocational Advancement of Youth
4. School Accreditation Matrix for Vocational Advancement of Youth

Paper II

Section Id : 517144164
Section Number : 2
Section type : Online

Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	517144507
Question Shuffling Allowed :	Yes
Is Section Default? :	null

**Question Number : 51 Question Id : 51714412380 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No
Correct Marks : 2 Wrong Marks : 0**

Which of these is the contrapositive of $p \rightarrow q$?

Options :

1. ✘ $\neg p \rightarrow \neg q$

2. ✘ $q \rightarrow p$

3. ✔ $\neg q \rightarrow \neg p$

4. ✘ $p \rightarrow \neg q$

Question Number : 52 Question Id : 51714412381 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What does the existential quantifier “ \exists ” mean?

Options :

1. ✘ For all
2. ✘ None
3. ✔ There exists at least one
4. ✘ It is necessary

Question Number : 53 Question Id : 51714412382 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Which rule of inference is used in deriving q from $p \rightarrow q$ and p ?

Options :

1. ✓ Modus Ponens

2. ✗ Modus Tollens

3. ✗ Hypothetical Syllogism

4. ✗ Disjunctive Syllogism

Question Number : 54 Question Id : 51714412383 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Which is NOT a basic operator in propositional logic?

Options :

1. ✗ AND

2. ✗ OR

3. ✓ XOR

4. ✗ NOT

Question Number : 55 Question Id : 51714412384 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Which symbol represents universal quantification?

Options :

1. ✘ \exists

2. ✔ \forall

3. ✘ \in

4. ✘ \therefore

Question Number : 56 Question Id : 51714412385 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What is the equivalence class for $p \wedge (q \vee r)$?

Options :

1. ✔ $(p \wedge q) \vee (p \wedge r)$

2. ✘ $(p \vee q) \wedge (p \vee r)$

3. ✘ $(p \wedge q) \vee r$

4. ✘ $(p \vee q) \wedge r$

Question Number : 57 Question Id : 51714412386 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What is the cardinality of $A \cap (B \cup C)$ given that $|A|=10$, $|B|=20$, $|C|=30$,
 $|A \cap B|=5$, $|A \cap C|=7$, and $|B \cap C|=4$?

Options :

1. ✘ 10

2. ✔ 12

3. ✘ 8

4. ✘ 14

Question Number : 58 Question Id : 51714412387 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

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

Correct Marks : 2 Wrong Marks : 0

Which property is NOT necessarily true for an equivalence relation?

Options :

1. ✘ Symmetry

2. ✘ Reflexivity

3. ✘ Transitivity

4. ✔ Total Ordering

Question Number : 59 Question Id : 51714412388 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

How many ways are there to arrange 4 books on a shelf if one book is a dictionary and must be on one end?

Options :

1. ✔ 12

2. ✘ 24

3. ✘ 6

4. ✘ 48

Question Number : 60 Question Id : 51714412389 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

If $P(A) = 0.3$, $P(B) = 0.6$ and $P(A|B) = 0.2$, what is $P(B|A)$?

Options :

1. ✔ 0.4

2. ✘ 0.1

3. ✘ 0.2

4. ✘ 0.3

Question Number : 61 Question Id : 51714412390 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

Which algebraic structure has closure, associativity, identity, and inverse but lacks commutativity?

Options :

1. ✘ Abelian group

2. ✘ Semi-group

3. ✔ Group

4. ✘ Field

Question Number : 62 Question Id : 51714412391 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

Two groups G and H are isomorphic. If $|G| = 48$, what is $|H|$?

Options :

1. ✘ 96

2. ✘ 24

3. ✓ 48

4. ✗ 32

Question Number : 63 Question Id : 51714412392 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Which of the following algebraic structures has distributivity but lacks commutativity for multiplication?

Options :

1. ✓ Ring

2. ✗ Integral Domain

3. ✗ Field

4. ✗ Group

Question Number : 64 Question Id : 51714412393 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

In mathematical induction, the base case serves to:

Options :

1. ✘ Prove the induction step
2. ✘ Test the hypothesis
3. ✔ Provide a starting point for the inductive proof
4. ✘ Validate the conclusion

Question Number : 65 Question Id : 51714412394 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

Which of the following algorithms is NOT used to find the Minimum Spanning Tree?

Options :

1. ✘ Kruskal's algorithm
2. ✘ Prim's algorithm

3. ✓ Floyd-Warshall algorithm

4. ✘ Boruvka's algorithm

Question Number : 66 Question Id : 51714412395 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In the PERT-CPM method, what does the Critical Path represent?

Options :

1. ✘ The shortest possible duration to complete the project.

2. ✘ The sequence of tasks that should be performed in parallel.

3. ✓ The longest path in the project network.

4. ✘ The sequence of tasks that can be delayed without delaying the project.

Question Number : 67 Question Id : 51714412396 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

Which type of flip-flop is considered to be a "memory cell" in random-access memory?

Options :

1. ✘ T Flip-Flop

2. ✔ D Flip-Flop

3. ✘ JK Flip-Flop

4. ✘ SR Flip-Flop

Question Number : 68 Question Id : 51714412397 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

In sequential circuits, what is the primary difference between Mealy and Moore machines?

Options :

1. ✘ Mealy has output dependent on the current state, Moore has output dependent on both the current state and input.

2. ✔

Mealy has output dependent on both the current state and input, Moore has output dependent on the current state.

3. ✘ Mealy is clock-driven, Moore is event-driven.

4. ✘ Mealy can only have one stable state, Moore can have multiple.

Question Number : 69 Question Id : 51714412398 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In the context of Register Transfer Language, which of the following approaches would be most efficient for executing a sequence of non-dependent arithmetic microoperations?

Options :

1. ✘ Stalling the pipeline until each microoperation is complete

2. ✘ Using forwarding to subsequent microoperations

3. ✔ Using parallelism to execute microoperations concurrently

4. ✘ Using out-of-order execution to maximize efficiency

Question Number : 70 Question Id : 51714412399 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

When using multi-cycle microoperations, which type of memory transfer is most susceptible to causing cycles to be wasted?

Options :

1. ✘ D M A transfer
2. ✘ Block transfer
3. ✘ Bus-mastering transfer
4. ✔ Burst-mode transfer

Question Number : 71 Question Id : 51714412400 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What is the most common bottleneck in optimizing a series of shift microoperations?

Options :

1. ✘ Data hazards

2. ✘ Control hazards

3. ✘ Structural hazards

4. ✔ Resource limitations on the number of shift registers

Question Number : 72 Question Id : 51714412401 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT generally a part of Memory-Reference Instructions in stored-program organizations?

Options :

1. ✘ Operation code

2. ✘ Memory address

3. ✔ Condition code

4. ✘ Immediate data

Question Number : 73 Question Id : 51714412402 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

For handling I/O, which of the following is the most efficient but also most complex to implement?

Options :

1. ✘ Programmed I/O

2. ✘ Interrupt-driven I/O

3. ✔ D M A (Direct Memory Access)

4. ✘ Polling

Question Number : 74 Question Id : 51714412403 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In microprogrammed control, what is the role of the control memory?

Options :

1. ✘ Stores the main program instructions
2. ✔ Stores the micro-operations for each instruction
3. ✘ Stores data to be processed
4. ✘ Stores stack frames for function calls

**Question Number : 75 Question Id : 51714412404 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

Stack organization in CPU is MOST suitable for which of the following?

Options :

1. ✔ Recursive function calls
2. ✘ Array processing
3. ✘ String operations

4. ✘ Integer arithmetic

**Question Number : 76 Question Id : 51714412405 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

In instruction formats, which type is generally more space-efficient?

Options :

1. ✔ Variable-length

2. ✘ Fixed-length

3. ✘ Zero-address

4. ✘ One-address

**Question Number : 77 Question Id : 51714412406 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT an advantage of RISC architecture?

Options :

1. ✘ Simplified instruction set
2. ✘ Faster clock speed
3. ✔ Smaller code size
4. ✘ Lower power consumption

Question Number : 78 Question Id : 51714412407 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

What is the main advantage of using Associative Memory over other types of memory?

Options :

1. ✘ Speed
2. ✘ Large storage capacity
3. ✘ Low latency

4. ✓ Content-addressable storage

Question Number : 79 Question Id : 51714412408 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Which of the following interconnection structures for multiprocessors is best suited for systems with a high degree of interprocessor communication?

Options :

1. ✘ Bus-based

2. ✓ Crossbar switch

3. ✘ Multistage switching network

4. ✘ Ring

Question Number : 80 Question Id : 51714412409 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In the context of multicore processors, what is the main challenge in designing efficient cache architecture?

Options :

1. ✘ Speed
2. ✘ Power consumption
3. ✔ Coherence
4. ✘ Storage capacity

Question Number : 81 Question Id : 51714412410 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What is the primary benefit of dynamic binding in programming languages?

Options :

1. ✔ Code Reusability
2. ✘ Improved Performance

3. ✘ Code Readability

4. ✘ Memory Efficiency

Question Number : 82 Question Id : 51714412411 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

In the realm of programming paradigms, which one is best suited for problems that can be naturally decomposed into sub-problems?

Options :

1. ✘ Procedural

2. ✘ Object-Oriented

3. ✔ Functional

4. ✘ Declarative

Question Number : 83 Question Id : 51714412412 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What will be the output of the following C program segment?

```
char newLetter = 'P' ;  
switch ( newLetter) {  
    case 'P' : printf ( " I am P \n " );  
    case 'Q' :  
    case 'R' : printf ( " I am R " );  
    case 'S' :  
    default 'T' :  
        : printf ( " No choice " ); }
```

Options :

1. ✘ No choice
2. ✘ I am P
3. ✔ I am P
I am R No choice
4. ✔ Program shows an error

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of the correct options are chosen.

Question Number : 84 Question Id : 51714412413 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In C/C++, what is the significance of `union` over `struct`?

Options :

1. ✓ Less memory usage
2. ✗ Type safety
3. ✗ Enhanced functionality
4. ✗ Encapsulation

Question Number : 85 Question Id : 51714412414 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Which preprocessor directive allows conditional compilation?

Options :

1. ✗ #include
2. ✗ #pragma
3. ✓ #ifdef

4. ✘ #error

Question Number : 86 Question Id : 51714412415 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

How do you explicitly invoke a destructor in C++?

Options :

1. ✘ delete

2. ✘ dispose()

3. ✘ finalize()

4. ✔ ~ClassName()

Question Number : 87 Question Id : 51714412416 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What is the primary purpose of a virtual function in C++?

Options :

1. ✘ Memory management
2. ✔ Polymorphism
3. ✘ Error handling
4. ✘ Function overloading

Question Number : 88 Question Id : 51714412417 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

When does a constructor get invoked?

Options :

1. ✘ At object deletion
2. ✔ At object instantiation
3. ✘ During compilation

4. ✘ At program exit

Question Number : 89 Question Id : 51714412418 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

Which I/O stream class is specifically designed for file operations?

Options :

1. ✘ `iostream`

2. ✘ ``stringstream``

3. ✔ `fstream`

4. ✘ `ostringstream`

Question Number : 90 Question Id : 51714412419 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In HTML, which tag is used for inserting a single line break?

Options :

1. ✘ `<lb>`
2. ✘ `<linebreak>`
3. ✔ `
`
4. ✘ `<break>`

Question Number : 91 Question Id : 51714412420 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What is the role of homogeneous coordinates in 2D transformations?

Options :

1. ✘ Simplify rotation operations
2. ✔ Enable translation using matrix multiplication
3. ✘ Eliminate the need for scaling

4. ✘ Speed up shear transformations

Question Number : 92 Question Id : 51714412421 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

In 3D transformations, what does the "look-at" matrix primarily achieve?

Options :

1. ✘ Positioning the camera

2. ✔ Transforming from world to camera coordinates

3. ✘ Scaling the objects

4. ✘ Shear transformations

Question Number : 93 Question Id : 51714412422 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What is the primary purpose of an Entity-Relationship (ER) Diagram?

Options :

1. ✘ Query optimization
2. ✘ Database normalization
3. ✔ Conceptual design
4. ✘ Data indexing

Question Number : 94 Question Id : 51714412423 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In a relational schema, what does the term "referential integrity" refer to?

Options :

1. ✘ Ensuring no duplicate rows
2. ✘ Ensuring data accuracy
3. ✔ Ensuring foreign key values have matching primary key values
4. ✘ Ensuring non-null constraints

Question Number : 95 Question Id : 51714412424 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What does the natural join operation in relational algebra essentially do?

Options :

1. ✘ Merges tables on all columns
2. ✔ Merges tables based on common columns and removes duplicates
3. ✘ Merges tables based on primary and foreign keys
4. ✘ Merges tables without any condition

Question Number : 96 Question Id : 51714412425 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What does the SQL `HAVING` clause primarily operate on?

Options :

1. ✓ Grouped rows

2. ✗ Individual rows

3. ✗ Columns

4. ✗ Tables

**Question Number : 97 Question Id : 51714412426 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

What is a stored procedure?

Options :

1. ✗ A single SQL query saved in the database

2. ✓ A set of SQL queries that can be executed in a single call

3. ✗ A predefined view

4. ✗ An active database trigger

Question Number : 98 Question Id : 51714412427 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What is the primary difference between a View and a Table?

Options :

1. ✘ Views are updatable, Tables are not
2. ✔ Views don't store data, Tables do
3. ✘ Views are faster than Tables
4. ✘ Views support complex queries, Tables don't

Question Number : 99 Question Id : 51714412428 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What is the primary goal of query optimization?

Options :

1. ✔ Reducing response time

2. ✘ Increasing storage efficiency
3. ✘ Maximizing accuracy
4. ✘ Guaranteeing result consistency

Question Number : 100 Question Id : 51714412429 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What is the primary objective of the Two-Phase Commit (2PC) protocol?

Options :

1. ✔ Transaction Atomicity
2. ✘ Query Optimization
3. ✘ Concurrency Control
4. ✘ Database Recovery

Question Number : 101 Question Id : 51714412430 Question Type : MCQ Option Shuffling : No

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

Correct Marks : 2 Wrong Marks : 0

What is the primary benefit of temporal databases?

Options :

1. ✘ Streamlined data management
2. ✔ Tracking historical data
3. ✘ Enhanced security
4. ✘ Real-time analysis

**Question Number : 102 Question Id : 51714412431 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

In the context of GIS, what does spatial data primarily refer to?

Options :

1. ✘ Time-based data

2. ✘ Textual data

3. ✔ Geographical data

4. ✘ Multimedia data

Question Number : 103 Question Id : 51714412432 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In a NOSQL database, what does eventual consistency mean?

Options :

1. ✘ Immediate consistency across all nodes

2. ✘ No guarantee of consistency

3. ✔ Consistency over a period of time

4. ✘ Consistency only in the same region

Question Number : 104 Question Id : 51714412433 Question Type : MCQ Option Shuffling : No

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

Correct Marks : 2 Wrong Marks : 0

What is the main drawback of NOSQL databases in comparison to RDBMS?

Options :

1. ✘ Scalability
2. ✘ Complexity
3. ✘ Speed
4. ✔ ACID properties

**Question Number : 105 Question Id : 51714412434 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

In a NOSQL database operating in the cloud, which feature is most crucial for optimizing performance?

Options :

1. ✔ Sharding

2. ✘ Indexing

3. ✘ Replication

4. ✘ Auto-scaling

**Question Number : 106 Question Id : 51714412435 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

Which of the following scheduling algorithms is non-preemptive?

Options :

1. ✘ Round Robin

2. ✘ Priority Scheduling

3. ✘ Shortest Job Next

4. ✔ First-Come-First-Served

Question Number : 107 Question Id : 51714412436 Question Type : MCQ Option Shuffling : No

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

Correct Marks : 2 Wrong Marks : 0

In the critical section problem, which property is NOT sought for a solution?

Options :

1. ✘ Mutual Exclusion

2. ✘ Progress

3. ✔ CPU Utilization

4. ✘ Bounded Waiting

Question Number : 108 Question Id : 51714412437 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

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

Correct Marks : 2 Wrong Marks : 0

Which of the following IPC mechanisms provides the BEST performance?

Options :

1. ✘ Message Queues

2. ✓ Shared Memory

3. ✘ Sockets

4. ✘ RPC

Question Number : 109 Question Id : 51714412438 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What does the Two-Phase Locking protocol primarily prevent?

Options :

1. ✘ Deadlocks

2. ✘ Mutual Exclusion

3. ✘ Race Conditions

4. ✓ Serialization Anomalies

Question Number : 110 Question Id : 51714412439 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

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

Correct Marks : 2 Wrong Marks : 0

In the context of deadlock recovery, what does the term "orphan process" refer to?

Options :

1. ✘ A process that holds no resources
2. ✘ A process terminated due to deadlock
3. ✔ A process left without a parent after rollback
4. ✘ A process that does not participate in resource allocation

Question Number : 111 Question Id : 51714412440 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Which of the following page replacement algorithms is susceptible to Belady's Anomaly?

Options :

1. ✘ LRU

2.

✘ Optimal

3. ✔ FIFO

4. ✘ LFU

Question Number : 112 Question Id : 51714412441 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What is the primary disadvantage of RAID 0?

Options :

1. ✔ No Fault Tolerance

2. ✘ Limited Capacity

3. ✘ Slower Reads

4. ✘ Slower Writes

Question Number : 113 Question Id : 51714412442 Question Type : MCQ Option Shuffling : No

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

Correct Marks : 2 Wrong Marks : 0

What is the primary role of the 'swapper' in Linux?

Options :

1. ✘ Swapping kernel modules
2. ✘ Out-of-memory management
3. ✔ Moving processes in and out of physical memory
4. ✘ Managing buffer cache

Question Number : 114 Question Id : 51714412443 Question Type : MCQ Option Shuffling : No

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

Correct Marks : 2 Wrong Marks : 0

Lamport time stamps are used to achieve

- (i) Global ordering
- (ii) Total ordering
- (iii) Partial ordering
- (iv) Sync ordering

Options :

1. ✘ i, ii

2. ✔ ii, iii

3. ✘ iii, iv

4. ✘ i, iv

**Question Number : 115 Question Id : 51714412444 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

Which of the following techniques is NOT typically used to manage risks in Agile software development?

Options :

1. ✘ Timeboxing

2. ✘ Backlog Prioritization

3. ✔ Critical Path Analysis

4. ✘ Iterative Development

Question Number : 116 Question Id : 51714412445 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Which Software Development Life Cycle (SDLC) model is most appropriate for projects with vague requirements and a high degree of innovation?

Options :

1. ✘ Waterfall Model
2. ✘ V-Model
3. ✔ Spiral Model
4. ✘ Big Bang Model

Question Number : 117 Question Id : 51714412446 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In context of architectural design, what is the primary goal of the "Model-View-Controller (MVC)" architectural pattern?

Options :

- 1.

- ✘ To facilitate data storage and retrieval
- 2. ✔ To separate the application into distinct but interconnected components
- 3. ✘ To make the system scalable horizontally across multiple servers
- 4. ✘ To ensure secure communication between client and server

Question Number : 118 Question Id : 51714412447 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In the context of software design, what is "content coupling"?

Options :

- 1. ✘ Modules share only simple data such as integers and characters.
- 2. ✔ One module relies on the inner workings of another module.
- 3. ✘ Modules share a data structure and use only a part of it.
- 4. ✘ Modules have a parent-child relationship in the control hierarchy.

Question Number : 119 Question Id : 51714412448 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Which of the following attributes primarily concerns the system's capability to maintain its performance under high-load conditions?

Options :

1. ✘ **Functionality**
2. ✘ **Usability**
3. ✔ **Scalability**
4. ✘ **Reliability**

Question Number : 120 Question Id : 51714412449 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What is the primary focus of "Cleanroom Software Engineering" with respect to software quality?

Options :

1. ✓ Reducing the number of defects by rigorous inspections and formal verification
2. ✘ Enhancing the user experience through iterative design and Prototyping
3. ✘ Increasing software maintainability through modular design
4. ✘ Ensuring portability across multiple platforms and devices

Question Number : 121 Question Id : 51714412450 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What does “ Coverage Criterion” in Software Testing primarily measure ?

Options :

1. ✘ The number of Detected faults or issues
2. ✓ The proportion of Codebase exercised by a test suite
3. ✘ The execution time of a test suite

4. ✘ The complexity of the codebase

Question Number : 122 Question Id : 51714412451 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

Consider a Binary Search Tree (BST) where all keys are unique. What is the maximum number of nodes that can be on the path from the root to the deepest leaf in a balanced BST with "n" nodes?

Options :

1. ✘ $O(n)$

2. ✔ $O(\log n)$

3. ✘ $O(\sqrt{n})$

4. ✘ $O(n \log n)$

Question Number : 123 Question Id : 51714412452 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

In a B+ Tree, unlike a B Tree, all keys are found in leaf nodes. Why is this feature particularly useful in databases?

Options :

1. ✘ It allows faster balancing of the tree
2. ✘ It enables quicker random access
3. ✘ It simplifies the data structure
4. ✔ It allows for efficient disk I/O operations

**Question Number : 124 Question Id : 51714412453 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

Which of the following problems does not have an optimal solution using Greedy Algorithms?

Options :

1. ✘ Fractional Knapsack
2. ✘ Job Sequencing with Deadlines
3. ✔ Coin Change for arbitrary denominations

4. ✖ Minimum Spanning Tree

Question Number : 125 Question Id : 51714412454 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What is the primary difference between Backtracking and Branch and Bound algorithms?

Options :

1. ✖ Backtracking can only be used for optimization problems
2. ✔ Branch and Bound uses a queue while Backtracking uses a stack
3. ✖ Branch and Bound can include approximate solutions
4. ✖ Backtracking is deterministic while Branch and Bound is probabilistic

Question Number : 126 Question Id : 51714412455 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

For which of the following types of graphs will Dijkstra's algorithm fail to find the shortest path?

Options :

1. ✘ Weighted, directed, acyclic graphs
2. ✘ Unweighted, undirected, cyclic graphs
3. ✔ Weighted, directed graphs with negative weight edges
4. ✘ Unweighted, directed, acyclic graphs

Question Number : 127 Question Id : 51714412456 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

For a given problem size n , if the space complexity is $S(n) = 4n^2 + 2n + \log n$, what is the order of $S(n)$ in Big-O notation?

Options :

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

4. ✘ $O(\log n)$

Question Number : 128 Question Id : 51714412457 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No
Correct Marks : 2 Wrong Marks : 0

Which of the following properties is not closed under regular languages?

Options :

1. ✘ Union

2. ✘ Intersection

3. ✘ Complement

4. ✔ Operator

Question Number : 129 Question Id : 51714412458 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No
Correct Marks : 2 Wrong Marks : 0

If L is a regular language and P and Q are two regular expressions, which of the following is not necessarily regular?

Options :

1. ✘ LUP

2. ✘ L^*

3. ✘ $L.P$

4. ✔ $L - P$

Question Number : 130 Question Id : 51714412459 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

For a Non-Regular language L , what does the Pumping Lemma primarily demonstrate?

Options :

1. ✘ There exists a string that can be pumped in L

2. ✘ Every string can be pumped in L

3. ✓ There exists a string that cannot be pumped in L

4. ✘ No string can be pumped in L

**Question Number : 131 Question Id : 51714412460 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

In Lexical Analysis, the NFA-to-DFA conversion uses which of the following algorithms?

Options :

1. ✘ Dijkstra's Algorithm

2. ✓ The Powerset Construction

3. ✘ Bellman-Ford Algorithm

4. ✘ Floyd-Warshall Algorithm

**Question Number : 132 Question Id : 51714412461 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :**

No

Correct Marks : 2 Wrong Marks : 0

In the context of Pushdown Automata (PDA), which of the following operations is not generally available?

Options :

1. ✘ Push an element into the stack
2. ✘ Pop an element from the stack
3. ✘ Replace the top element of the stack
4. ✔ Sort the stack elements

Question Number : 133 Question Id : 51714412462 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On

Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :

No

Correct Marks : 2 Wrong Marks : 0

What is the primary difference between a Pushdown Automaton (PDA) and a Non-Deterministic Pushdown Automaton (NPDA)?

Options :

1. ✘ NPDA uses a queue instead of a stack
2. ✔ NPDA can have multiple next states for the same input and stack condition

3. ✘ PDA is Turing complete while NPDA is not

4. ✘ PDA can only recognize context-free languages, while NPDA can recognize recursively enumerable languages.

Question Number : 134 Question Id : 51714412463 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Assume you are given a Universal Turing Machine UTM. Which of the following is NOT a capability of a UTM ?

Options :

1. ✘ Simulating any standard Turing Machine

2. ✔ Deciding the halting problem for Turing Machines

3. ✘ Recognizing the language of Turing machines that halt on empty input

4. ✘ Simulating deterministic as well as non-deterministic Turing Machines

Question Number : 135 Question Id : 51714412464 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

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

Correct Marks : 2 Wrong Marks : 0

Which of the following parsers can handle left-recursive grammars without modification?

Options :

1. ✘ Recursive Descent Parser
2. ✘ LL(1) Parser
3. ✔ LR Parser
4. ✘ LALR(1) Parser

Question Number : 136 Question Id : 51714412465 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In the context of code optimization, what does "peep-hole" optimization primarily focus on?

Options :

1. ✔ Local optimization by inspecting a small window of instructions.

2. ✘ Loop unrolling and loop fusion.
3. ✘ Redundancy elimination at the global level.
4. ✘ Data-flow analysis for optimizing entire functions.

Question Number : 137 Question Id : 51714412466 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In a noisy channel with error rates rising, which modulation scheme is the most resilient for digital transmission?

Options :

1. ✘ Amplitude-Shift Keying (ASK)
2. ✘ Frequency-Shift Keying (FSK)
3. ✔ Phase-Shift Keying (PSK)
4. ✘ Quadrature Amplitude Modulation (QAM)

Question Number : 138 Question Id : 51714412467 Question Type : MCQ Option Shuffling : No

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

Correct Marks : 2 Wrong Marks : 0

For implementing error-correction in a digital communication system, which of the following is a more advanced mechanism than Hamming code but with potentially higher overhead?

Options :

1. ✓ Reed-Solomon Code
2. ✘ Cyclic Redundancy Check (CRC)
3. ✘ Parity Check
4. ✘ Checksum

**Question Number : 139 Question Id : 51714412468 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

In TCP/IP, how does Explicit Congestion Notification (ECN) in the IP layer interact with TCP to prevent congestion collapse?

Options :

1. ✘ It directly modifies the TCP window size.

2. ✓ It sets a flag in the IP header that the TCP layer reads and reacts to.
3. ✘ It initiates a TCP RST flag.
4. ✘ It automatically drops packets at the network layer.

Question Number : 140 Question Id : 51714412469 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In IPv6, which of the following statements about its Header Chain is accurate?

Options :

1. ✘ It eliminates the need for fragmentation.
2. ✘ It allows only a fixed number of extension headers.
3. ✓ It allows easier parsing due to its variable size.
4. ✘ It incorporates the checksum directly in the header

Question Number : 141 Question Id : 51714412470 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In terms of digital signatures, what does non-repudiation ensure?

Options :

1. ✓ The sender cannot deny the authenticity of the message sent.
2. ✘ The message can only be opened by the intended receiver.
3. ✘ The message cannot be intercepted during transmission.
4. ✘ The message is checked for integrity at the receiver's end.

Question Number : 142 Question Id : 51714412471 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What distinguishes Epidemic Routing from traditional routing methods in Mobile Adhoc Networks (MANETs)?

Options :

1. ✘ Uses static routes based on a fixed topology

2. ✓ Propagates data to multiple nodes in hops one will reach the destination
3. ✘ Prioritizes data delivery based on Quality of Service (QoS)
4. ✘ Utilizes GPS for optimized routing

Question Number : 143 Question Id : 51714412472 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

Consider a cloud-based resource management system that dynamically allocates resources based on a priority queue. What would be a downside of this approach in a public cloud environment?

Options :

1. ✘ Inefficient use of resources
2. ✓ Risk of resource starvation for low-priority tasks
3. ✘ Difficulty in maintaining service-level agreements (SLAs)
4. ✘ Increased complexity in virtualization

Question Number : 144 Question Id : 51714412473 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

During the alpha-beta cutoff procedure in game playing, what happens when a beta value of a node becomes less than the alpha value of its ancestor?

Options :

1. ✓ The subtree is pruned immediately
2. ✗ The alpha value is updated
3. ✗ The search continues to evaluate all child nodes
4. ✗ The beta value is updated.

Question Number : 145 Question Id : 51714412474 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In game playing, what is the key advantage of using the Min-Max search algorithm?

Options :

1. ✘ It prunes the search space efficiently
2. ✔ It guarantees to find the optimal solution
3. ✘ It reduces the computational time by half
4. ✘ It minimizes the need for heuristic evaluation

**Question Number : 146 Question Id : 51714412475 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No**

Correct Marks : 2 Wrong Marks : 0

What advanced technique is often used to make the defuzzification step more robust?

Options :

1. ✘ Centroid method
2. ✘ Weighted average method
3. ✘ Eigenvalue decomposition
4. ✔ Monte Carlo simulation

Question Number : 147 Question Id : 51714412476 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What is the primary role of the Semantic Web in a Multiagent System?

Options :

1. ✘ To encrypt agent communication.
2. ✔ To enable interoperability among heterogeneous agents.
3. ✘ To perform agent scheduling.
4. ✘ To implement agent learning algorithms.

Question Number : 148 Question Id : 51714412477 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

In terms of neural architecture, which of the following best describes how reinforcement learning models typically differ from supervised learning models?

Options :

1. ✓ Presence of a reward signal
2. ✘ Use of recurrent layers
3. ✘ Multiple output nodes
4. ✘ Absence of a hidden layer

Question Number : 149 Question Id : 51714412478 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control : No

Correct Marks : 2 Wrong Marks : 0

What is the purpose of a fitness function in a Genetic Algorithm?

Options :

1. ✘ To introduce mutations
2. ✓ To determine the quality of solutions
3. ✘ To perform crossover operations
4. ✘ To initialize the population

Question Number : 150 Question Id : 51714412479 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A
Minimum Instruction Time : 0 Allowed Progression : Yes Number of Replay : 999 Play On
Load : No Control Enable : Yes Time interval to replay(In Seconds) : 0 Allow Volume Control :
No

Correct Marks : 2 Wrong Marks : 0

What is the goal of the back propagation algorithm in a multi-layer perception?

Options :

1. ✘ To propagate the input signals forward
2. ✔ To reduce the dimensionality of the data
3. ✘ To update the weights to minimize the error
4. ✘ To generate more layers in the network