Entrance Exam

2024



QUESTION PAPER

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Andhra Pradesh State Council of Higher Education

Notations :

1.Options shown in green color and with ✔ icon are correct.

2.Options shown in red color and with ✖ icon are incorrect.

Question Paper Name :	COMPUTER SCIENCE AND APPLICATIONS 2nd May 2024 Shift 1
Duration :	120
Total Marks :	140
Display Marks:	No
Share Answer Key With Delivery Engine :	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
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Research Methodology

Section Id :	971036395
Section Number :	1
Mandatory or Optional :	Mandatory
Number of Questions :	66
Section Marks :	70
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Is Section Default? :	null

Question Number : 1 Question Id : 97103627778 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The acronym MOOCS stands for

Options :

1. ✖ Modular Open Online Courses

2. ✖ Mass Online Offline Class

3. ✖ Multi-media Open Online Classes

4.

✔ Massive Open Online Courses

Question Number : 2 Question Id : 97103627779 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The idea of making students watch an education video at home and participate in discussion during the class is known as

Options :

1. ✖ Diverse class room

2. ✔ Flipped class room

3. ✖ Multi-media class room

4. ✖ Google class room

Question Number : 3 Question Id : 97103627780 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The term 'Zoom' in the context of ICT refers to

Options :

1. ✖ Learning Management System

2. ✖ Flipped class room

3. ✔ Video conferencing tool

4. ✖ Online data collection system

Question Number : 4 Question Id : 97103627781 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

One of the following is a popular method of feedback in ICT based learning

Options :

1. ✖ WhatsApp web

2. ✖ Dropbox

3. ✖ Google Drive

4. ✔ Google form

Question Number : 5 Question Id : 97103627782 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A commonly used BYOD (Bring Your Own Device) in ICT supported learning process is

Options :

1. ✔ Laptop

2. ✖ Smartphone

3. ✖ Interactive white board

4. ✖ LCD projector

Question Number : 6 Question Id : 97103627783 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The method of dividing students into small groups to learn parts of a topic is known as

Options :

1. ✖ Round-Robin method

2. ✖ Numbered heads together

3. ✖ Think-pair-share method

4. ✔ Jigsaw method

Question Number : 7 Question Id : 97103627784 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Microsoft Teams is one ICT tool that supports

Options :

1. ✖ Web-based slides

2. ✔ Real time communication and collaboration

3. ✖ LMS

4. ✖ Remote Learning

Question Number : 8 Question Id : 97103627785 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which platform is widely recognized as one of the first MOOC providers?

Options :

1. ✖ Coursera

2. ✖ Udemy

3. ✖ Khan Academy

4. ✔ edX

Question Number : 9 Question Id : 97103627786 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The system of securing academic credit through optional and elective courses was made possible by

Options :

1. ✖ MOOCS

2. ✖ Semester System

3. ✔ Choice Based Credit System

4. ✖ Distance Education

Question Number : 10 Question Id : 97103627787 Display Question Number : Yes Is Questi

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

One of the following types of questions cannot be easily auto-graded by LMS software.

Options :

1. ✖ True-false type questions

2. ✔ Subjective questions

3. ✖ Multiple Choice questions

4. ✖ Matching type questions

Question Number : 11 Question Id : 97103627788 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

An example of data measured on nominal scale is

Options :

1. ✖ Actual age of a person

2. ✖ Body Weight

3. ✔ Gender

4. ✖ Shoe length

Question Number : 12 Question Id : 97103627789 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Review of relevant literature is the vital step in the following stage of research

Options :

1. ✖ Data collection

2. ✔ Problem formulation stage

3. ✖ Sampling design

4. ✖ Interpretation of results

Question Number : 13 Question Id : 97103627790 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following style is commonly used in thesis writing for humanities ?

Options :

1. ✔ MLA style

2. ✖ APA style

3. ✖ IEEE style

4. ✖ Chicago style

Question Number : 14 Question Id : 97103627791 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the expansion of the acronym APA in the style of references?

Options :

1. ✖ Associated Printers Architecture

2. ✔ American Psychological Association

3. ✖ Advanced Psychological Appendix

4. ✖ Authenticated Publishing Act

Question Number : 15 Question Id : 97103627792 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Every published paper/article in a journal is expected to have completed the stage

Options :

1. ✖ Publisher's review

2. ✖ Editorial review

3. ✖ Public review

4. ✔ Peer review

Question Number : 16 Question Id : 97103627793 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The ‘bottom-up method’ approach in research is known as ‘

Options :

1. ✔ Inductive method

2. ✖ Hypothesis method

3. ✖ Pattern method

4. ✖ Interview method

Question Number : 17 Question Id : 97103627794 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruct Time : 0

The audio-visual communication among researchers across the globe using ICT is called

Options :

1. ✖ Web hosting

2. ✖ Podcasting

3. ✔ Tele-conferencing

4. ✖ Telecasting

Question Number : 18 Question Id : 97103627795 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

One of the following is a powerful tool to seek content on a topic from internet resources

Options :

1. ✖ GPS

2. ✖ Alta Vista

3. ✔ ChatGPT

4. ✖ Skype

Question Number : 19 Question Id : 97103627796 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The acronym CARE in UGC-CARE stands for

Options :

1. ✖ Committee on Academic Research Ethics

2. ✔ Consortium for Academic Research and Ethics

3. ✖ Consortium for Academic Regulatory Ethics

4. ✖ Core Academic Research Ethics

Question Number : 20 Question Id : 97103627797 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

By group discussion one can evaluate the ability of a participant to

Options :

1. ✖ Dominate others

2. ✖ Control other participants

3. ✔ Confer with other participants

4. ✖ Lead over others

Is Section Default? : null

Question Id : 97103627798 Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (21 to 25)

Read the following passage and answer the questions below:

According to the World Health Organization cancer is the second leading cause of death globally. The cancer burden continues to grow globally. However, survival rates are improving with the help of advanced diagnosis and treatment. Regular screenings and early detection are two main key factors that help improve survival rates. "Lung, prostate, colorectal, stomach and liver cancer are the most common types of cancer in men, while breast, colorectal, lung, cervical and thyroid cancer are the most common among women," mentions the WHO website. Tobacco use alone accounts for around one-third of deaths from cancers. Other risk factors include high body mass index, alcohol consumption, family history, some health conditions, environment, infections by certain viruses and more. Common treatment options include surgery, chemotherapy, radiation therapy, bone marrow transplant, targeted drug therapy and more.

Sub questions

Question Number : 21 Question Id : 97103627799 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which among the following is not the treatment options for Cancer ?

Options :

1. ✖ Chemotherapy

2. ✖ Radiation therapy

3. ✔ PRP

4. ✖ Bone marrow transplant

Question Number : 22 Question Id : 97103627800 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Survival rate of cancer increases with

Options :

1. ✖ Stomach and live cancer

2. ✔ Regular screening and early detection

3. ✖ Tobacco use

4. ✖ Infections by certain viruses

Question Number : 23 Question Id : 97103627801 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

One of the following is not commonly found cancer specific to women

Options :

1. ✖ Lung

2. ✖ Cervical

3.

✔ Prostate

4. ✖ Colorectal

Question Number : 24 Question Id : 97103627802 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The following is not known risk factor for cancer

Options :

1. ✖ High body mass index

2. ✔ High glucose levels

3. ✖ Alcohol consumption

4. ✖ Chewing tobacco

Question Number : 25 Question Id : 97103627803 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Common therapy to treat cancer includes

Options :

1. ✖ Physiotherapy

2. ✖ Laser therapy

3. ✖ Palliative care

4. ✔ Chemotherapy

Is Section Default? : null

Question Number : 26 Question Id : 97103627804 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is an element of evaluation in the Choice Based Credit System (CBCS)?

Options :

1. ✔ Continuous assessment

2. ✖ Multiple-choice questions

3. ✖ Final exams only

4. ✖ No grading system

Question Number : 27 Question Id : 97103627805 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

During lecturing the class room teacher shall be highly cognizant about

Options :

1. ✖ Fixed posture

2. ✖ Proximity

3. ✖ Frequent pausing

4. ✔ Voice modulation

Question Number : 28 Question Id : 97103627806 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A majority of communication problems arise due to

Options :

1. ✔ Poor oral communication

2. ✖ Physical appearance

3. ✖ Facial expressions

4.

✖ Body language

Question Number : 29 Question Id : 97103627807 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The following is an example of non-verbal communication

Options :

1. ✖ Question paper

2. ✖ Google form

3. ✖ SMS on mobile

4. ✔ Facial expression

Question Number : 30 Question Id : 97103627808 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

India's largest public sector broadcasting agency is

Options :

1. ✖ Doordarshan

2. ✖ PTI

3. ✔ Prasar Bharathi

4. ✖ TRAI

Question Number : 31 Question Id : 97103627809 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Among the options below, which one is not primarily used as a social networking platform

Options :

1. ✔ Dropbox

2. ✖ X

3. ✖ Reddit

4. ✖ Pinterest

Question Number : 32 Question Id : 97103627810 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The process of creating knowledge by transforming experiences is known as

Options :

1. ✖ Abstraction

2. ✖ Conceptualization

3. ✔ Learning

4. ✖ Experimentation

Question Number : 33 Question Id : 97103627811 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

An assertive communication (either written or spoken) will be powerful when it is given as ____

Options :

1. ✔ 'I' message

2. ✖ 'We' message

3. ✖ 'You' message

4. ✖ 'They' message

Question Number : 34 Question Id : 97103627812 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Two numbers are respectively 20% and 50% more than a third number.

The ratio of the two numbers is

Options :

1. ✔ 4:5

2. ✖ 2:5

3. ✖ 3:5

4. ✖ 6:7

Question Number : 35 Question Id : 97103627813 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The cost price of 25 articles is the same as the selling price of x articles. If the profit is 30%, then the value of x is

Options :

1. ✖ 15

2. ✔ 20

3. ✖ 18

4. ✖ 25

Question Number : 36 Question Id : 97103627814 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A fruit seller sold 40% of watermelons available with him and still left with 420 fruits. How many fruits had he originally ?

Options :

1. ✖ 588

2. ✖ 600

3. ✖ 143

4. ✔ 700

Question Number : 37 Question Id : 97103627815 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Suppose the simple average of 20 numbers is zero. How many of these numbers can be greater than zero?

Options :

1. ✖ 0

2. ✖ 20

3. ✖ 10

4. ✔ 19

Question Number : 38 Question Id : 97103627816 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A man purchased a cow for Rs. 3000 and sold it the same day for Rs. 3600, allowing the buyer credit for 2 years. If the rate of interest is 10% per annum, then the man has a gain of

Options :

1. ✔ 0%

2. ✖ 5%

3. ✖ 7.5%

4. ✖ 10%

Question Number : 39 Question Id : 97103627817 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. At what speed it should travel in order to cover the same distance in 2 hours ?

Options :

1. ✖ 300 Kmph

2. ✖ 360 Kmph

3. ✖ 720 Kmph

4. ✔ 600 Kmph

Question Number : 40 Question Id : 97103627818 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What decimal of an hour is a second?

Options :

1. ✖ 0.0025

2. ✖ 0.0256

3. ✔ 0.00027

4. ✖ 0.0002

Question Number : 41 Question Id : 97103627819 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The process of drawing general conclusions from a set of specific observations is called

Options :

1. ✔ Inductive logic

2. ✖ Analogy

3. ✖ Speculative logic

4. ✖ Evidence-based logic

Question Number : 42 Question Id : 97103627820 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Reasoning is an instrument whose purpose is to

Options :

1. ✖ Spread knowledge

Live in imaginary world

2. ✖

Anticipate unknown things

3. ✖

Grasp the unknown from the known

4. ✔

Question Number : 43 Question Id : 97103627821 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A statement that asserts all or some members of one category are included in the other category is called

Options :

Speculative statement

1. ✖

Predictive statement

2. ✖

Categorical statement

3. ✔

Non-deniable statement

4. ✖

Question Number : 44 Question Id : 97103627822 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Study the following table and answer the questions based on it.
Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure (in Rs. lakhs)				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

What is the average amount of interest per year which the company had to pay during this period?

Options :

1. ✖ 32.43

2. ✖ 33.72

3. ✖ 34.18

4. ✔ 36.66

Question Number : 45 Question Id : 97103627823 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Study the following table and answer the questions based on it.
Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

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2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

Options :

1. ✖ 0.10

2. ✖ 0.50

3. ✔ 1.0

4. ✖ 1.25

Question Number : 46 Question Id : 97103627824 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Study the following table and answer the questions based on it.
Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure (in Rs. lakhs)				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?

Options :

1. ✖ 62

2. ✖ 66

3. ✔ 69

4. ✖ 71

Question Number : 47 Question Id : 97103627825 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Study the following table and answer the questions based on it.
Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure (in Rs. lakhs)				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

The total expenditure of the company over these items during the year 2000 is?

Options :

1. ✔ 544.44

2. ✖ 501.11

3. ✖ 446.46

4. ✖ 478.87

Question Number : 48 Question Id : 97103627826 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Study the following table and answer the questions based on it.
Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure (in Rs. lakhs)				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

The ratio between the total expenditure on Taxes for all the years and the total expenditure on Fuel and Transport for all the years respectively is approximately?

Options :

1. ✖ 4:7

2. ✔ 10:13

3. ✖ 15:18

4. ✖ 5:8

Question Number : 49 Question Id : 97103627827 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

One of the following is not a search engine

Options :

1. ✖ Google

2. ✖ Yahoo

3. ✔ One-drive

4. ✖ Bing

Question Number : 50 Question Id : 97103627828 Display Question Number : Yes Is Questi

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The standard protocol for internet is

Options :

1. ✖ Java

2. ✖ HTML

3. ✖ FTTP

4. ✔ TCP/IP

Question Number : 51 Question Id : 97103627829 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A popular term related to the design of a digital learning environment is

Options :

1. ✖ LMS

2. ✔ E-kalpa

3. ✖ E-commerce

4. ✖ E-tendering

Question Number : 52 Question Id : 97103627830 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Government of India created an initiative to encourage scientific temper among students, known as ATL, whose full expansion is

Options :

1. ✖ Atal Technology Lab

2. ✔ Atal Tinkering Lab

3.

Applied Techno Lab

4. Applied Technology Lab

Question Number : 53 Question Id : 97103627831 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

One of the following is a web browser

Options :

1. Microsoft Windows

2. Google Drive

3. Google Chrome

4. HTML

Question Number : 54 Question Id : 97103627832 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Online courses through NPTEL platform are offered by

Options :

1. NITs

2. ✖ IIPA

3. ✖ IIMs

4. ✔ Jointly IITs and IISc

Question Number : 55 Question Id : 97103627833 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The chief objective of the PARAM Shavak of the Government of India is to provide

Options :

1. ✖ MOOCs in all subjects

2. ✖ Database of theses and dissertations

3. ✔ Affordable supercomputing facilities for research

4. ✖ Knowledge base for start-ups

Question Number : 56 Question Id : 97103627834 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The movement of topsoil and litter from one place to another is known as

Options :

1. ✔ Soil erosion

2. ✖ Soil submersion

3. ✖ Soil pollution

4. ✖ Soil pulling

Question Number : 57 Question Id : 97103627835 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The hearing sensitivity of human ear is

Options :

1. ✖ 3-6 kHz

2. ✔ 2-5 kHz

3. ✖ 10-50 kHz

4. ✖ 50-100 kHz

Question Number : 58 Question Id : 97103627836 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The organic material in solid waste is decomposed by

Options :

1. ✖ Soil particles

2. ✖ Oxidation

3. ✖ Flow of water

4. ✔ The action of microorganisms

Question Number : 59 Question Id : 97103627837 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The oldest commonly followed method to dump solid waste is

Options :

1. ✔ Landfill

2. ✖ Burning

3. ✖ River flow

4. ✖ Drying in open air

Question Number : 60 Question Id : 97103627838 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The harmful pollutant released by petrol/diesel vehicles is

Options :

1. ✖ Carbon Dioxide

2. ✖ Ozone

3. ✔ Carbon Monoxide

4. ✖ Nitrogen Oxide

Question Number : 61 Question Id : 97103627839 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

One of the following is not a result of global warming

Options :

1. ✖ Melting glaciers

2. ✔ Population growth

3. ✖ Raising sea levels

Heat waves

4. ✖

Question Number : 62 Question Id : 97103627840 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is mostly responsible to global warming?

Options :

1. ✖ Deforestation

2. ✖ Erosion of sea coasts

3. ✔ Fossil fuel combustion

4. ✖ Agriculture

Question Number : 63 Question Id : 97103627841 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Sort the following countries in the decreasing order of carbon dioxide emissions

A. North America

B. Africa

C. Europe

D. Asia

Options :

1. ✖ DBCA

2. ✖ ADCB

3. ✔ DACB

4. ✖ BADC

Question Number : 64 Question Id : 97103627842 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The international agreement on reducing greenhouse emissions, is known as

Options :

1. ✖ NATO

2. ✖ COP 21 agreement

3. ✔ Convention on Biological Diversity

4. ✖ Montreal agreement

Question Number : 65 Question Id : 97103627843 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Montreal Protocol on ozone layer protection came into effect in the year

Options :

1. ✔ 1989

2. ✖ 1998

3. ✖ 1978

4. ✖ 1987

Question Number : 66 Question Id : 97103627844 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The first earth summit on biological diversity was held in

Options :

1. ✖

India

2. ✖ USA

3. ✖ South Africa

4. ✔ Brazil

Question Number : 67 Question Id : 97103627845 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is a conventional learning programme in India?

Options :

1. ✖ Yoga

2. ✔ Agriculture

3. ✖ Journalism

4. ✖ Artificial Intelligence

Question Number : 68 Question Id : 97103627846 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The 24-hour educational programme launched in 2020 and telecast in India is termed as

Options :

1. ✔ Gyan Darshan

2. ✖ NPTEL

3. ✖ SASTRA

4. ✖ SWAYAM

Question Number : 69 Question Id : 97103627847 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The quality of Technical and Management education in India is monitored by

Options :

1. ✖ ICMR

2. ✖ NAAC

3. ✖ UGC

4. ✔ AICTE

Question Number : 70 Question Id : 97103627848 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Medical Council of India is recently renamed as

Options :

1. ✖ Indian Medical Association

2. ✖ ICMR

3. ✔ National Medical Commission

4. ✖ Pharmacy Council of India

COMPUTER SCIENCE AND APPLICATIONS

Section Id :	971036396
Section Number :	2
Mandatory or Optional :	Mandatory
Number of Questions :	70
Section Marks :	70
Enable Mark as Answered Mark for Review and Clear Response :	Yes

Maximum Instruction Time : 0

Is Section Default? : null

Question Number : 71 Question Id : 97103627849 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is NOT a valid proposition?

Options :

1. ✖ The sky is blue.

2. ✔ $2 + 2 = 5.$

3. ✖ $x^2 = x*x$

4. ✖ The sun rises in the East

Question Number : 72 Question Id : 97103627850 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

How many subsets can be formed from a set with n elements?

Options :

1. ✔ 2^n

2. ✖ $n!$

3. ✖ n^2

4. ✖ n/2

Question Number : 73 Question Id : 97103627851 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In graph theory the degree of a vertex is _____

Options :

1. ✔ The number of edges incident to the vertex

2. ✖ The number of vertices in the graph

3. ✖ The length of the shortest path to the vertex

4. ✖ The weight of the edges incident to the vertex

Question Number : 74 Question Id : 97103627852 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Identify the Inclusion-Exclusion principle.

Options :

1. ✖ $|A \cap B| = |A| + |B| + |A \cap B|$

2. ✖ $|A \cap B| = |A| + |B| - |A \cap B|$

3. ✔ $|A \cup B| = |A| + |B| - |A \cap B|$

4. ✖ $|A \cup B| = |A| - |B| + |A \cap B|$

Question Number : 75 Question Id : 97103627853 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What are the minimum number of colors needed to color the vertices of any planar graph such that no two adjacent vertices have the same color?

Options :

1. ✖ 2

2. ✖ 3

3. ✔ 4

4. ✖ 5

Question Number : 76 Question Id : 97103627854 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which automaton is used to recognize regular languages?

Options :

1. ✖ DPDA

2. ✖ LBA

3. ✖ PDA

4. ✔ FSM

Question Number : 77 Question Id : 97103627855 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Hamiltonian path is _____

Options :

1. ✔ A path in a graph that visits each vertex exactly once.

2. ✖ A path in a tree that visits each edge exactly once.

3. ✖ A path in a cyclic graph that visits each vertex exactly once.

4. ✖ A path in a directed graph that visits each edge exactly once.

Question Number : 78 Question Id : 97103627856 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

It is predicted that the number of transistors that can be fabricated within a single chip will increase exponentially in time. Which law states this?

Options :

1. ✖ De Morgan's Law

2. ✔ Moore's Law

3. ✖ Ohm's Law

4. ✖ Krichhoff's Law

Question Number : 79 Question Id : 97103627857 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Consider the logic circuit with three inputs A, B & C and Output Y is high for the following conditions



i. B & C are true

ii. A & C are false

iii. A, B & C are true

iv. A, B & C are false

Which of the following is true to Minimize the function Y ?

Options :

1. ✔ $Y = BC + A'C'$

2. ✖ $Y = B'C' + AC$

3. ✖ $Y = B + C + A'C'$

4. ✖ $Y = A'+C'+BC$

Question Number : 80 Question Id : 97103627858 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The absorption law in Boolean algebra says that

Options :

1. ✖ $x+x = x$

2. ✖ $x \cdot x = x$

3. ✔ $x+x.y = x$

4. ✖ $y+x.y = y$

Question Number : 81 Question Id : 97103627859 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Match the following logic families with their basic circuits

A. TTL	i. NAND
B. ECL	ii. NOR
C. CMOS	iii. Inverter

Choose the correct options given below:

Options :

1.

✖ A-ii, B-i, C-iii

2. ✖ A-ii, B-iii, C-i

3. ✖ A-iii, B-ii, C-i

4. ✔ A-i, B-ii, C-iii

Question Number : 82 Question Id : 97103627860 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The dual of a Boolean expression is obtained by interchanging

Options :

1. ✖ Boolean sums and Boolean products

2. ✖ Boolean sums and Boolean products or interchanging 0's and 1's

3. ✔ Boolean sums and Boolean products and interchanging 0's and 1's

4. ✖ Interchanging 0's and 1's

Question Number : 83 Question Id : 97103627861 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The race around condition occurs in a J-K flip-flop when

Options :

1. ✖ both inputs are 0

2. ✔ both inputs are 1

3. ✖ the inputs are complementary

4. ✖ any one of the above input combinations is present

Question Number : 84 Question Id : 97103627862 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

10001 is the 2's complement of which of the following number in 2's complement representation?

Options :

1. ✔ -15

2. ✖ 15

3. ✖ 14

4. ✖ -14

Question Number : 85 Question Id : 97103627863 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

If a variable is a pointer to a structure, which of the following operator is used to access data members of the structure through the pointer variable?

Options :

1. ✖ . (dot)

2. ✖ &

3. ✖ *

4. ✔ ->

Question Number : 86 Question Id : 97103627864 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the similarity between a structure, union and enumeration?

Options :

1. ✖ All of them let you define new values

2. ✔ All of them let you define new data types

3. ✖ All of them let you define new pointers

4. ✖ All of them let you define new functions

Question Number : 87 Question Id : 97103627865 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What will be the output of the following C code?

```
#include <stdio.h>
void main( )
{int  i =  0;
do
{  i++;
If (i == 2)
continue;
printf("In while loop ");
} while (i< 2);
printf("%d\ n", i);
}
```

Options :

1. ✔ In while loop 2

2. ✖ In while loop In while loop 3

3. ✖ In while loop 3

4. ✖ In while loop

Question Number : 88 Question Id : 97103627866 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the size of a class in Programming ?

Options :

1. ✖ Sum of the size of all inherited variables along with the variables of the same class

2. ✖ The size of the class is the largest size of the variable of the same class

3. ✔ Classes in the programming languages do not have any size

4. ✖ Sum of the size of all the variables within a class.

Question Number : 89 Question Id : 97103627867 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following constructor is used to create an object by initializing data members using an existing object?

Options :

1. ✖ Default constructor

2. ✖ Dynamic constructor

3. ✖ Member constructor

4. ✔ Copy constructor

Question Number : 90 Question Id : 97103627868 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

How is Exception handling implemented in the C++ program?

Options :

1. ✖ Using Exception keyword

2. ✔ Using try-catch block

3. ✖ Using Exception block

4. ✖ Using Error handling schedules

Question Number : 91 Question Id : 97103627869 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

State whether the following statements about inheritance are True or False.

I. A public member of a class can be accessed by its own objects using the dot operator.

II. While inheriting, the private members of the base class will never become the members of its derived class.

Options :

1. ✖ True, False

2. ✖ False, True

3. ✔ True, True

4. ✖ False, False

Question Number : 92 Question Id : 97103627870 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Related to E-R diagrams which of the following is NOT a correct match?

Options :

1. ✖ Attribute - Ellipse

2. ✔ Derived Attribute – Ellipse comprising of Ellipses

3. ✖ Identifier Attribute – Ellipse with Underline

4. ✖ Multivalued Attribute – Double Ellipse

Question Number : 93 Question Id : 97103627871 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which normal form ensures that there are no repeating groups in a table?

Options :

1. ✔ 1NF

2. ✖ 2NF

3. ✖ 3NF

4. ✖ BCNF

Question Number : 94 Question Id : 97103627872 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In relational database design, what is the primary goal of 4NF (Fourth Normal Form)?

Options :

1. ✖ To eliminate partial dependencies

2. ✖ To eliminate transitive dependencies

3. ✔ To ensure multi-valued dependencies are eliminated

4. ✖ To simplify queries

Question Number : 95 Question Id : 97103627873 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Data Manipulation Language (DML) in SQL primarily deals with _____

Options :

1. ✖ Manipulation of database structure

2. ✖ Manipulation of views in the database

3. ✖ Controlling access to the database

4. ✔ Manipulating data in the database

Question Number : 96 Question Id : 97103627874 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is a Data Control Language (DCL) command in SQL?

Options :

1. ✖ SELECT

2. ✖ UPDATE

3. ✔ GRANT

4. ✖ INSERT

Question Number : 97 Question Id : 97103627875 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Identify the false statement relating to Views.

Options :

1. ✖ Views should not have NULL values

2. ✖ Views should not be created using nested queries

3. ✖ Views should not be created using the DISTINCT keyword

4. ✔ Views should not be created from multiple tables

Question Number : 98 Question Id : 97103627876 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the role of sequences in a relational database?

Options :

1. ✖ To define constraints on columns

2. ✔ To generate unique numeric values automatically

3. ✖ To create virtual tables

4. ✖ To define relationships between tables

Question Number : 99 Question Id : 97103627877 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Two main measures for the efficiency of an algorithm are

Options :

1. ✖ Processor and memory

2. ✔ Time and space

3. ✖ Date and space

4. ✖ Complexity and capacity

Question Number : 100 Question Id : 97103627878 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

To find out an item at position n in less time which data structure is the best one.

Options :

1. ✖ Singly linked list

2. ✖ Doubly linked list

3. ✖ Circular linked list

4. ✔ Array

Question Number : 101 Question Id : 97103627879 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Among the following options, which type of data structure is used in recursion?

Options :

1. ✖ Queues

2. ✖ Array

3. ✖ Linked List

4. ✔ Stack

Question Number : 102 Question Id : 97103627880 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The number of edges in a complete graph of n vertices is

Options :

1. ✖ n(n+1)/2

2. ✔ n(n-1)/2

3. ✖ n2/2

4. ✖ n

Question Number : 103 Question Id : 97103627881 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

If the file size is large and to be accessed randomly, which of the following allocation method would be best?

Options :

1. ✖ Linked allocation.

2. ✔ Indexed allocation

3. ✖ Contiguous allocation

4. ✖ Sequential allocation

Question Number : 104 Question Id : 97103627882 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following tree maintains a list of the keys in sequential order?

Options :

1. ✖ B+ tree

2. ✖ B* tree

3. ✔ B tree

4. ✖ m-way search tree

Question Number : 105 Question Id : 97103627883 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

If several elements are competing for the same bucket in the hash table, what is it called?

Options :

1. ✖ Diffusion

2. ✖ Replication

3. ✔ Collision

4. ✖ Duplication

Question Number : 106 Question Id : 97103627884 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruct Time : 0

In _____ one source host can send packets to all destinations simultaneously.

Options :

1. ✖ Multicast

2. ✖ Unicast

3. ✖ Direct Delivery

4. ✔ Broadcast

Question Number : 107 Question Id : 97103627885 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

OSI stands for _____ related to computer networks.

Options :

1. ✔ Open systems interconnection

2. ✖ Operating system interface

3. ✖ Optical service implementation

4. ✖ Open systems interface

Question Number : 108 Question Id : 97103627886 Display Question Number : Yes Is Quest

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which transmission media has the highest transmission speed in a network?

Options :

1. ✖ Coaxial cable

2. ✖ Twisted pair cable

3. ✔ Optical fiber

4. ✖ Electrical cable

Question Number : 109 Question Id : 97103627887 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The _____ layer is responsible for carrying the packet from the source all the way to destination and also called as host-to-host delivery

Options :

1. ✖ Presentation

2. ✔ Network

3. ✖ Data Link

4. ✖ Physical

Question Number : 110 Question Id : 97103627888 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In Cellular system, area is divided into small areas called as _____.

Options :

1. ✖ Square

2. ✔ Cells

3. ✖ Antenna Scope

4. ✖ Cluster

Question Number : 111 Question Id : 97103627889 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Domain Name System is maintained by _____

Options :

1. ✔ distributed database system

2. ✖ a single server

3. ✖ a single computer

4. ✖ Centralized system

Question Number : 112 Question Id : 97103627890 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Firewalls are used to protect against_____.

Options :

1. ✔ Unauthorized Attacks

2. ✖ Virus Attacks

3. ✖ Data Driven Attacks

4. ✖ Fire Attacks

Question Number : 113 Question Id : 97103627891 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following statements is incorrect related to Macros?

Options :

1. ✖ Complete code of instruction string is inserted at each place, wherever the macro name appears

2. ✖ Macro requires less time of execution than that of procedure

3. ✔ Macro uses stack memory

4. ✖ Macro name can be anything except registers and mnemonics

Question Number : 114 Question Id : 97103627892 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Match the following according to input (left column) to the compiler phase (in the right column) which process it

P. Syntax Tree	i. Code generator
Q. Character Stream	ii. Syntax analyser
R. Intermediate representation	iii. Semantic analyser
S. Token Stream	iv. Lexical analyser

Options :

1. ✖ P-ii, Q-iii, R- iv, S-i

2. ✖ P-ii, Q-i, R- iii, S-iv

3. ✔ P-iii, Q-iv, R- i, S-ii

4. ✖ P-i, Q-iv, R- ii, S-iii

Question Number : 115 Question Id : 97103627893 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A Compiler that runs on one machine and produces code for a different machine is called _____

Options :

1. ✖ One pass compilation

2. ✖ Two pass compilation

3. ✖ Copy compilation

4. ✔ Cross compilation

Question Number : 116 Question Id : 97103627894 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Text editor is a _____ software

Options :

1. ✖ Application

2. ✖ System

3. ✔ Utility

4. ✖ All purpose

Question Number : 117 Question Id : 97103627895 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruct

Time : 0

Which of the following is top-down parser?

Options :

1. ✔ Recursive descent parser

2. ✖ Operator precedence parser

3. ✖ An LR(k) parser

4. ✖ An LALR(k) parser

Question Number : 118 Question Id : 97103627896 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The YACC (Yet Another Compiler Compiler) takes C code as input and produces shift reduce parsers in C, which is also known as _____

Options :

1. ✖ Top down parsers

2. ✔ Bottom up parsers

3. ✖ Machine code

4. ✖ Intermediate code

Question Number : 119 Question Id : 97103627897 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is not an intermediate code form?

Options :

1. ✖ Syntax trees

2. ✖ Three address codes

3. ✔ Quadruples

4. ✖ Post fix Notation

Question Number : 120 Question Id : 97103627898 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The operating system is a _____ type of software.

Options :

1. ✖ Communication

2. ✔ System

3. ✖ Application

4. ✖ Word processing

Question Number : 121 Question Id : 97103627899 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The objective of multiprogramming is _____

Options :

1. ✖ Have multiple programs waiting in a queue ready to run

2. ✔ Have some process running at all times

3. ✖ To minimize CPU utilization

4. ✖ Both 1 & 3

Question Number : 122 Question Id : 97103627900 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In memory management with paging _____ fragmentation can be eliminated.

Options :

1. ✖ Internal

2. ✖ Partial

3. ✖ Complex

4. ✔ External

Question Number : 123 Question Id : 97103627901 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which one of the following is a synchronization tool?

Options :

1. ✖ Thread

2. ✖ Pipe

3. ✖ Socket

4. ✔ Semaphore

Question Number : 124 Question Id : 97103627902 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Processes are in deadlock state, if _____

Options :

1. ✖ All processes are trying to kill each other

2. ✖ Each process is terminated

3. ✔ Each process is blocked and will remain so forever

4. ✖ Both 1 & 2

Question Number : 125 Question Id : 97103627903 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The primary distinction between short term and the long term schedulers is_____

Options :

1. ✔ The frequency of their execution

2. ✖ The length of their queues

3. ✖ The type of processes they schedule

4. ✖ Both 1 & 2

Question Number : 126 Question Id : 97103627904 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In a UNIX system, process information in the current shell can be obtained by using

Options :

1. ✖ bg

2. ✖ fg

3. ✔ ps

4. ✖ ed

Question Number : 127 Question Id : 97103627905 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is the most important feature of the spiral model?

Options :

1. ✖ Efficiency Management

2. ✖ Time Management

3. ✔ Risk Management

4. ✖ Quality Management

Question Number : 128 Question Id : 97103627906 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In the Analysis phase, the development of the _____ occurs, which is a clear statement of the goals and objectives of the project.

Options :

1. ✖ Documentation

2. ✖ Flowchart

3. ✔ Program specification

4. ✖ design

Question Number : 129 Question Id : 97103627907 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The objective of project metrics is _____

Options :

1. ✖ Minimization of development schedule

2. ✖ For strategic purposes

3. ✖ Assessing project quality on ongoing basis

4. ✔ Minimization of development schedule and assessing project quality on ongoing basis

Question Number : 130 Question Id : 97103627908 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which tool is used for structured designing ?

Options :

1. ✖ Program flowchart

2. ✔ Structure chart

3. ✖ Data-flow diagram

4. ✖ Module

Question Number : 131 Question Id : 97103627909 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Coupling is a qualitative indication of the degree to which a module _____

Options :

1. ✖ can be written more compactly

2. ✖ focuses on just one thing

3. ✖ is able to complete its function in a timely manner

4. ✔ is connected to other modules and the outside world

Question Number : 132 Question Id : 97103627910 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruct

Time : 0

Identify the Fault-based testing technique.

Options :

1. ✖ Beta Testing

2. ✖ Unit Testing

3. ✔ Mutation Testing

4. ✖ Stress Testing

Question Number : 133 Question Id : 97103627911 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

When can one decide to re-engineer a product?

Options :

1. ✖ when tools to support restructuring are disabled

2. ✖ when system crashes frequently

3. ✔ when hardware or software support becomes obsolete

4. ✖ subsystems of a larger system require few maintenance

Question Number : 134 Question Id : 97103627912 Display Question Number : Yes Is Quest

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which is the default communicator of MPI Communications?

Options :

1. ✖ MPI_COMM_RANK

2. ✔ MPI_COMM_WORLD

3. ✖ MPI_COMM_SIZE

4. ✖ MPI_COMM_SELF

Question Number : 135 Question Id : 97103627913 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which segment do eBay, Amazon.com and LandsEn4.COM belong?

Options :

1. ✖ C2Bs

2. ✖ B2Bs

3. ✖ C2Cs

4. ✔ B2Cs

Question Number : 136 Question Id : 97103627914 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is an IMEI number?

Options :

1. ✔ An identifier for a mobile device

2. ✖ An identifier for a mobile app

3. ✖ An identifier for a mobile operating system

4. ✖ An identifier for a mobile hotspot

Question Number : 137 Question Id : 97103627915 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is NOT a kind of data warehouse application?

Options :

1. ✖ Information Processing

2. ✖ Analytical Processing

3. ✖ Data Mining

4. ✔ Transaction Processing

Question Number : 138 Question Id : 97103627916 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Identify the option among the following which is NOT involved in data mining.

Options :

1. ✖ Data exploration

2. ✖ Knowledge extraction

3. ✔ Data transformation

4. ✖ Data archaeology

Question Number : 139 Question Id : 97103627917 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Win32 library provides two classes for creating the main window. These are

Options :

1. ✔ WNDCLASS and WNDCLASSX

2. ✖ WINBASE and WINNT

3. ✖ WINMAIN and WINCLASS

4. ✖ WINCLASS and WINNT

Question Number : 140 Question Id : 97103627918 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following wireless technology is used for exchanging data between a variety of fixed and mobile devices over a very short diameter?

Options :

1. ✖ Mobile technology

2. ✔ Bluetooth technology

3. ✖ Ad hoc computing

4. ✖ Cloud computing

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