

Section 1 - Section 1**Question No.1**

4.00

Bookmark

Study the following information carefully and answer the question below it

Lakshman passes through seven lanes to reach his school. He finds that 'Truth lane' is between his house and 'Lie lane'. The third lane from his school is 'Karma lane'. 'Dharma lane' is immediately before the 'Yog lane'. He passes 'Salvation lane' at the end, 'Lie lane' is between 'Truth lane' and 'Dharma lane', the sixth lane from his house is 'Devotion lane'.

If Lakshman's house, each lane and his school are equidistant and he takes 2 minutes to pass one lane, then how long will he take to reach school from his house?

- 16 minutes
- 15 minutes
- 13 minutes
- 14 minutes

Question No.2

4.00

Bookmark

Crumb : Bread ::

- Water : Bucket
- Splinter : Wood
- Tea : Cup
- Flower : Vase

Question No.3

4.00

Bookmark

The concept of delivering the ordered items at a designated time is

- JIT (Just-in-time)
- online delivery
- Made-to-Order
- ontime shipping

Question No.4

4.00

Bookmark

Which of the following can be the nodes examined in a binary search tree while searching for key 98?

- 100,50,75,60,98
- 100,120,90,95,98
- 200,70,100,95,98
- 75,150,90,80,98

Question No.5

4.00

Bookmark

The transmission on the asynchronous bus is also called as

- Bulk Transfer
- Hand-Shake transmission
- Switch mode transmission
- Variable transfer

Question No.6

4.00

Bookmark

Consider a system has p processes. Each process need a maximum of m resources and a total of r resources available. What condition must hold to make the system deadlock free?

- $r \geq p(m-1)$
- $r \leq p(m-1)$
- $r \geq p(m-1)+1$
- $r \leq p(m-1)+1$

Question No.7

4.00

Bookmark

Statement: Ten Candidates, who were on the waiting list could finally be admitted to the course.

Assumptions:

- I. A large of number of candidates were on the waiting list.
- II. Wait listed candidates do not ordinarily get admission.

- If only assumption I is implicit
- If neither I nor II is implicit
- If only assumption II is implicit
- If both I and II are implicit

Question No.8

4.00

Bookmark

A web server sends a program to be stored on the user's hard drive called afrequently without a disclosure or the user's content.

- website
- datastore
- cookie
- server

Question No.9

4.00

Bookmark

Being awarded the Best Singer in 2010 marked a _____ in her life.

- yardstick
- milestone
- sign-post
- memorial

Question No.10

4.00

Bookmark

The page fault frequency parameter 'p' is usually measured in

- number of page faults per minute
- number of page faults per second
- number of page faults per millisecond
- mm

Question No.11

4.00

Bookmark

If A+B means A is daughter of B,
A-B means A is husband of B
A × B means A is brother of B

From the statement $A \times B \times C \times D$, which of the following statement is not necessarily true?

- B is the brother of A
- D is brother of C
- A, B, C are male
- C is the brother of A

Question No.12

4.00

Bookmark

The address of the operand is given in instruction itself is

- Direct Addressing
- Register Indirect Addressing
- Register Addressing
- Implicit Addressing

Question No.13

4.00

Bookmark

Select the Pair that best represents the relationship that is given in the question:

Explore : Discover

- Research : Learn
- Books : Knowledge
- Think : Relate
- Tree : Wood

Question No.14

4.00

Bookmark

The running time for insertion sort algorithm under best case is

- $O(n)$
- $O(\log n)$
- $O(\log n \cdot n)$
- $O(n \log n)$

Question No.15

4.00

Bookmark

How many swaps are required to extract the maximum element from the below max-heap?

<16,15,14,6,8,12,13,7>

- 2
- 3
- Zero
- 1

Question No.16

4.00

Bookmark

A recursive function would result in infinite recursion, if the following were left out:

- Base case
- Local variable declarations
- Subtraction
- Recursive call

Question No.17

4.00

Bookmark

If a relation is in 2 NF and 3 NF forms, then

- All attributes are functionally independent
- No non-prime attribute is functionally dependent on other non-prime attributes
- Prime attribute is functionally independent of all non-prime attributes
- No non-prime attribute is functionally dependent on prime attributes

Question No.18

4.00

Bookmark

The Clique problem is

- MST
- NP-Complete
- NP-Hard
- NP-Soft

Question No.19

4.00

Bookmark

Top-Down design does not require

- Modularity
- Step-Wise refinement
- Flow Charting
- Loop invariants

Question No.20

4.00

Bookmark

Choose the best antonym of the italicized word.

The deliberate *suavity* of Olaf's behavior made the emotions of the audience volatile.

- politeness
- stupidity
- impetuosity
- pleasantness

Question No.21

4.00

Bookmark

The COCOMO model deals with

- scheduling
- software risk
- software cost
- testing

Question No.22

4.00

Bookmark

_____ is an umbrella activity that is applied throughout the software process.

- change management
- SQA
- configuration management
- V&V

Question No.23

4.00

Bookmark

Average inventory level is reduced by

- Increasing the usage rate
- Decreasing the order quantity
- Lowering the reorder point
- Decreasing the vendor lead time

Question No.24

4.00

Bookmark

Web client talks to web server through

- TCP port 80
- TCP port 21
- UDP port 80
- UDP port 21

Question No.25

4.00

Bookmark

Error reports are an example of

- Scheduled reports
- Exception reports
- Predictive reports
- Demand reports

Question No.26

4.00

Bookmark

SAP stands for

- Software, Applications, Products
- System, Applications, Products in data processing
- Software administration programme
- Software, Applications, Projects

Question No.27

4.00

Bookmark

Statement: Apart from it's entertainment value of Television, it's educational value cannot be ignored

Assumptions:

I. People take Television to be the means of entertainment only.

II. The educational value of Television is not realized properly

- If only assumption II is implicit
- If neither I nor II is implicit
- If only assumption I is implicit
- If both I and II are implicit

Question No.28

4.00

Bookmark

Find the correct pass numbers for each of the following activities:

- i. Object code generations
- ii. Literals added to literal table.
- iii. Listing printed.
- iv. Address resolution to local symbols that in two pass assembler.
 - 1,2,1,2
 - 1,2,2,2
 - 2,1,2,1
 - 2,1,1,2

Question No.29

4.00

Bookmark

The Complexity of the linear search algorithm is

- $O(\log n)$
- $O(n \log n)$
- $O(n)$
- $O(nS^2)$

Question No.30

4.00

Bookmark

The running time for merge sort algorithm under best case is

- $O(n)$
- $O(\log n)$
- $O(n \log n)$
- $O(\log n * n)$

Question No.31

4.00

Bookmark

Study the following information carefully and answer the question below it

The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion are to be organised on each day from Monday to Sunday.

- (i) One day there will be no lecture (Saturday is not that day), just before that day Group Discussion will be organised.
- (ii) Motivation should be organised immediately after Assessment Centre.
- (iii) Quality Circle should be organised on Wednesday and should not be followed by Group Discussion
- (iv) Decision Making should be organised on Friday and there should be a gap of two days between Leadership and Group Discussion

Which of the following information is not required for the above lecture arrangements?

- Only (i)
- Only (ii)
- Only (iii)
- All are required

Question No.32

4.00

Bookmark

An System has a stored knowledge base and an inference engine.

- Expert
- MIS
- Centers
- Control

Question No.33

4.00

Bookmark





- 2
- 3
- 1
- 4

Question No.34

4.00

Bookmark

Find the odd one out?

- Deposit
- Deduction
- Debit
- Withdrawal

Question No.35

4.00

Bookmark

The five items A, B, C, D, and E are pushed in a stack, one after the other starting from A. The stack is popped four times and each element is inserted in a queue. Then, two elements are deleted from the queue and pushed back on the stack. Now, one item is popped from the stack. The popped item is

- A
- C
- B
- D

Question No.36

4.00

Bookmark

Identify the ERP vendor

- CTS
- TCS
- SAP
- PATNI

Question No.37

4.00

Bookmark

Computer-to-Computer direct transfer of standard business documents is

- EFT (Electronic Fund transfer)
- e-broker
- EDI (Electronic data interchange)
- Electronic distributor

Question No.38

4.00

Bookmark

The completeness constraint has rule

- Partial specialization, partial generalization
- Total specialization, partial specialization
- Specialization, generalization
- Supertype, subtype

Question No.39

4.00

Bookmark

An open source testing tool used to test the performance of the application when it is under heavy load is

- PSP
- Apache JMeter
- Loadrunner
- TSL

Question No.40

4.00

Bookmark

Which scheduling policy is most suitable for a time-shared operating system?

- Round-Robin
- Shortest job first
- First come first serve
- Last In First Out

Question No.41

4.00

Bookmark

Which of the following returns a random number?

- randomize()
- r()
- rand()
- random()

Question No.42

4.00

Bookmark

The processing time of a business process from beginning to end is

- lapsed time
- process time
- cycle time
- lead time

Question No.43

4.00

Bookmark

Which of the following is not a part of SDLC?

- SRS
- analysis
- design
- software cost estimation

Question No.44

4.00

Bookmark

When their father died, their elder brother sold the old house and _____ in a small flat in a far-off suburb

- set them up
- set them down
- put them down
- put them up

Question No.45

4.00

Bookmark

Based on the information given answer the following question.

1. In a family of six persons, there are people from three generations. Each has separate professions and they like different colours. There are two couples.
2. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour.
3. Chartered Accountant likes green colour and his wife is a teacher.
4. Manisha is the mother-in-law of Sunita and she likes orange colour.
5. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour.
6. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes white colour.

What is the profession of Sunita?

- Teacher
- Principal
- Chartered Accountant
- Cannot be determined

Question No.46

4.00

Bookmark

What will be the output of the following statement in C Programming? `printf (3+"goodbye");`

- Goodbye
- Bye
- dbye
- Odbye

Question No.47

4.00

Bookmark

A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?

- 0 1/6
- 0 1/8
- 0 1/2
- 0 1/4

Question No.48

4.00

Bookmark

Which of the following is not a part of software testing?

- V&V
- fault tolerance
- fixing bugs
- debugging

Question No.49

4.00

Bookmark

Which of the following is used for grouping of characters into tokens in a compiler?

- Code Optimizer
- Scanner
- Parser
- Code generator

Question No.50

4.00

Bookmark

Decisions can be classified on three levels, strategic, and operational

- Predictive reports
- Accessible
- Preparation
- Tactical

Question No.51

4.00

Bookmark

The initial configuration of queue is a,b,c,d. a is at the front. To get the configuration d,c,b,a, how many deletions and additions required?

- 3 deletions, 4 additions
- 3 deletions, 3 additions
- 3 deletions, 2 additions
- 2 deletions, 3 additions

Question No.52

4.00

Bookmark

Which of the following is not a datamining functionality?

- Clustering and Analysis
- Selection and interpretation
- Characterization and Discrimination
- Classification and regression

Question No.53

4.00

Bookmark

Choose the best synonym of the italicized word.

Dr. Elango is in the habit of using *obsolete* words.

- simple
- outdated
- difficult
- wrong

Question No.54

4.00

Bookmark

The process of encrypting and decrypting messages is called _____

- authentication
- cryptanalysis
- authenticity
- cryptography

Question No.55

4.00

Bookmark

The four major corporate resources are money, materials, information and

- Program
- people
- Software
- Resources

Question No.56

4.00

Bookmark

_____ helps in analyzing the intrinsic parallelism of a program.

- DFD
- structured chart
- decision table
- decision tree

Question No.57

4.00

Bookmark

Management Information System (MIS) can be built using

- Visual Programming
- Assembly Language Programming
- Embedded system
- Web Based Application Programming

Question No.58

4.00

Bookmark

How are the risks documented in SDLC?

- using RIS
- using Risk Table
- KPA
- RMMM

Question No.59

4.00

Bookmark

Banker's algorithm is used for Purpose.

- Deadlock removal
- Deadlock avoidance
- Deadlock prevention
- Deadlock continuation

Question No.60

4.00

Bookmark

ERP stands for

- Enterprise resource planning
- Entire resource planning
- Enterprise requirements planning
- Enterprise resource programme

Question No.61

4.00

Bookmark

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

- One-pass compilation
- Multi-pass compilation
- Cross-compilation
- Two pass compilation

Question No.62

4.00

Bookmark

A network that links the intranets of business partners using the virtually private network on the Internet is

- Extranet
- VAN
- Intranet
- MAN

Question No.63

4.00

Bookmark

Which of the following represents processor activities, methods and procedures in a data flow diagram?

- Datagram
- Feedback
- Flow Chart
- Actigram

Question No.64

4.00

Bookmark

A lack of normalization can lead to which one of the following problems?

- Lost updates
- Insertion problems
- Deadlock
- Deferred updates

Question No.65

4.00

Bookmark

What is the purpose of using ALE signal high?

- To latch low order address from bus to separate $A_0 - A_7$ lines
- To latch data $D_0 - D_7$ from bus to separate data bus
- To disable data bus latch
- To enable data bus latch

Question No.66

4.00

Bookmark

Scheduler in an operating system is

- a loader
- a compiler
- a system call
- an operating system module

Question No.67

4.00

Bookmark

Correct the error in the italicized part of the sentence by choosing the most appropriate options
Job was a tiny man, barely five feet tall, with a *spright walk*

- a sprightly walking
- a sprightly walk
- spright walk
- spright walkingly

Question No.68

4.00

Bookmark

RARP is used to find the

- Correct IP route from the routing table
- Subnet mask of a known network address
- MAC address of a known IP address
- IP address of a known MAC address

Question No.69

4.00

Bookmark

WINDOWS NT is designed as

- CISC
- RISC
- CACHE
- RISC & CISC

Question No.70

4.00

Bookmark

The interrupt-request line is a part of the

- Strobe line
- Control line
- Data line
- Address line

Question No.71

4.00

Bookmark

A bridge forwards or filters a packet by comparing the information in its address table to the packet's

- Layer 3 destination address
- Layer 2 source address
- Source node's physical address
- Layer 2 destination address

Question No.72

4.00

Bookmark

_____ can also be applied at the behavioral (black-box) level. The graph will assist in identifying those loops that need to be tested.

- control testing
- smoke testing
- loop testing
- regression testing

Question No.73

4.00

Bookmark

Which of the following statements is false?

- The data dictionary contains the name and description of each data element
- The data dictionary is normally maintained by the database administrator
- The data dictionary is tool used exclusively by the database administrator
- Data elements in the database can be modified by changing the data dictionary

Question No.74

4.00

Bookmark

A B-Tree of order m is an m -way search tree with

- each node, except for root and leaves, having less than $m/2$ subtrees
- the root of the tree having more than m subtrees
- all its leaves connected to form a linked list
- all leaves of the tree on the same level

Question No.75

4.00

Bookmark

Axis Bank, India's third-largest private sector bank, launched an innovation lab called _____ last year to accelerate the development of innovative AI technology solutions for the banking sector.

- IVA
- SIA
- SBI bot
- EVA

Question No.76

4.00

Bookmark

The requirement report includes

- A hierarchy chart showing the top-level modules
- A list of alternative solutions considered
- A structure flow
- A data flow diagram describing the proposed new system

Question No.77

4.00

Bookmark

The reservation system of Indian railways is an example of

- Interactive decision support system
- Management Controls System
- Transaction Processing System
- Expert System

Question No.78

4.00

Bookmark

She studies very hard for the exams, _____?

- is it?
- doesn't she?
- isn't it?
- does she?

Question No.79

4.00

Bookmark

Which among the following is not a structured data type in C?

- union
- string
- boolean
- pointer

Question No.80

4.00

Bookmark

Which of the following is not true of software requirement specification?

- A high quality SRS is a prerequisite to high quality software
- An SRS establishes the basis for agreement between the client and the supplier on what the software product will do
- An SRS provides a reference for validation of the final product
- A high quality SRS increases the development Cost

Question No.81

4.00

Bookmark

Which of the following addresses both software and hardware quality management?

- CMMI
- TQM
- CMM
- PCMM

Question No.82

4.00

Bookmark

In a relational schema, each tuple is divided into fields called

- Relations
- Class
- Queries
- Domains

Question No.83

4.00

Bookmark

Choose the best synonym of the italicized word.

Children of excessively indulgent parents often become very *recalcitrant*.

- insolent
- indolent
- disobedient
- dependent

Question No.84

4.00

Bookmark

Speed of microprocessor depends on

- Data bus width
- Access time
- Response time
- Address bus width

Question No.85

4.00

Bookmark

FTR (Formal technical review) is a _____ performed by software engineers.

- change management activity
- software testing activity
- configuration management activity
- software quality assurance activity

Question No.86

4.00

Bookmark

Which of the following is used to convert a string to an integer?

- atoi()
- strcmp()
- string()
- itoa()

Question No.87

4.00

Bookmark

Cyclomatic complexity is given by

- $V(G) = E - N$
- $V(G) = E - N + 2$
- $V(G) = E + N$
- $V(G) = E + N - 2$

Question No.88

4.00

Bookmark

Which one of these is not software maintenance activity?

- Adaptation
- Error Correction
- Establishing scope
- Implementation of enhancement

Question No.89

4.00

Bookmark

The microprocessor uses register to sequence the execution of the instructions.

- Instruction Register
- Program Counter
- Flag
- Accumulator

Question No.90

4.00

Bookmark

A situation where a business is selling online to an individual consumer is

- Business-to-Business E-Commerce
- banner
- Business-to-Consumer E-Commerce
- E-Business

Question No.91

4.00

Bookmark

Which of the following conditions is used to transmit two packets over a medium at the same time?

- Collision
- Contention
- Synchronous
- Asynchronous

Question No.92

4.00

Bookmark

The end of an SQL command is denoted by

- A semicolon (;)
- Entering F4 key
- An end of line character
- An enter-key marker

Question No.93

4.00

Bookmark

A network node consisting of both hardware and software that isolates a private network from public networks is

- intermediary
- fare tracker
- firewall
- internet mall

Question No.94

4.00

Bookmark

This is the school where I studied till class 5.
The underlined word is a

- preposition
- adverb
- adjective
- pronoun

Question No.95

4.00

Bookmark

In Unix, which symbol will be used with grep command to match the pattern pat at the beginning of a line?

- ^ pat
- pat \$
- \$ pat
- pat ^

Question No.96

4.00

Bookmark

What are the two primitive operations of semaphore?

- BUSY & WAIT
- WAIT & FREE
- FREE & SIGNAL
- SIGNAL & WAIT

Question No.97

4.00

Bookmark

Nidhi walks 10 metres in front and 10 metres to the right. Then every time turning to her left, she walks 5, 15 and 15 metres respectively. How far is Nidhi now from her starting point?

- 10 metres
- 5 metres
- 15 metres
- None of the above

Question No.98

4.00

Bookmark

Which of the following reflects the balance factor for a node in AVL tree?

- {0,1}
- {0,1,2}
- {0,-1,1}
- {-1,0,1}

Question No.99

4.00

Bookmark

The data structure required for breath first traversal on a graph is

- Stack
- Tree
- Queue
- Array

Question No.100

4.00

Bookmark

DLL stands for

- dynamic language library
- dynamic load library
- dynamic language list
- dynamic link library