

PROVISIONAL ANSWER KEY

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Question1:-India's Super Computer, Pratyush is dedicated to

- A:-Weather and Climate research
- B:-Defence study
- C:-Market research
- D:-Population study

Correct Answer:- Option-A

Question2:-Which section of the Indian Penal Code criminalises homosexuality?

- A:-317
- B:-178
- C:-477
- D:-377

Correct Answer:- Option-D

Question3:-The code name of India's first indigenous nuclear powered ballistic missile submarine is

- A:-INS30
- B:-S2
- C:-S11
- D:-INS25

Correct Answer:- Option-B

Question4:-The project launched by the Kerala State Women's Development Corporation to empower women in the tribal settlement is

- A:-Gothramitra
- B:-Mahilamitra
- C:-Vanamitra
- D:-Janamitra

Correct Answer:- Option-C

Question5:-Who was known as the "Stalin of Vayalar"?

- A:-V.S. Achuthanadan
- B:-C.P. Ramaswami Aiyar
- C:-K.C. George
- D:-C.K. Kumara Panikkar

Correct Answer:- Option-D

Question6:-The 21st Chief Election Commissioner of India is

- A:-Om Prakash Rawat
- B:-Achal Kumar Joti
- C:-Ashok Lavasa
- D:-Sunil Arora

Correct Answer:- Option-B

Question7:-Sahodara Sangham was founded in

- A:-1907
- B:-1937
- C:-1917
- D:-1927

Correct Answer:- Option-C

Question8:-The journalist, Rachna Khaira who exposed the Aadhaar data leak belongs to

- A:-The Tribune
- B:-The Hindu
- C:-The New Indian Express
- D:-The Times of India

Correct Answer:- Option-A

Question9:-Who described the power conferred by the Article 356 of the Indian Constitution as a "Dead Letter"?

- A:-Jawaharlal Nehru
 - B:-Dr. B.R. Ambedkar
 - C:-H.N. Kunzru
 - D:-Dr. Rajendra Prasad
- Correct Answer:- Option-B

Question10:-Who was the General Secretary of the Travancore Defence Committee?

- A:-A.K. Gopalan
 - B:-Mannath Padmanabhan
 - C:-C. Kesavan
 - D:-M.M. Cherian
- Correct Answer:- Option-D

Question11:-Who criticized the Financial Emergency provisions of the Indian Constitution as "a form of constitutional dictatorship"?

- A:-Mahabir Tyagi
 - B:-Dr. B.R. Ambedkar
 - C:-T.T. Krishnamachari
 - D:-K.T. Shah
- Correct Answer:- Option-C

Question12:-The poem Sahodari Kurathi was authored by

- A:-Sahodaran Ayyappan
 - B:-Ayyan Kali
 - C:-Sivayogi
 - D:-Ayyathan Gopalan
- Correct Answer:- Option-A

Question13:-Jnanodaya Yogam was founded in

- A:-1906
 - B:-1896
 - C:-1946
 - D:-1927
- Correct Answer:- Option-A

Question14:-The Ezhava Mahajana Sabha was started at

- A:-Thalassery
 - B:-Kozhikode
 - C:-Ponnani
 - D:-Palakkad
- Correct Answer:- Option-D

Question15:-The recently re-elected Indian nominee to the International Court of Justice is

- A:-R.S. Pathak
 - B:-M.C. Chagla
 - C:-Dalveer Bhandari
 - D:-B.P.J. Reddy
- Correct Answer:- Option-C

Question16:-Balaprobodini Sanskrit Patasala was founded by

- A:-T.K. Madhavan
 - B:-C. Krishnan
 - C:-K. Neelakantan Namboothiripad
 - D:-Pandit K.P. Karuppan
- Correct Answer:- Option-B

Question17:-The Director of the film Padmaavat is

- A:-Ranveer Singh
 - B:-Prakash Kapadia
 - C:-Deepika Padukone
 - D:-S.L. Bhansali
- Correct Answer:- Option-D

Question18:-Ananda Mahasabha was founded by

- A:-Sivayogi
- B:-Kerala Varma Valiyakoyi Thampuran
- C:-V.T. Bhattathirippad

D:-D. Vagbhadananda

Correct Answer:- Option-A

Question19:-The present Chairman of ISRO is

A:-K. Radhakrishnan

B:-A.S. Kiran Kumar

C:-K. Sivan

D:-A.K. Singh

Correct Answer:- Option-C

Question20:-INS Viraat was decommissioned on

A:-6, January, 2018

B:-6, March, 2017

C:-6, March, 2016

D:-8, January, 2018

Correct Answer:- Option-B

Question21:-The errors that can be pointed out by the compiler are

A:-Logical errors

B:-Syntax error

C:-Semantic error

D:-Internal error

Correct Answer:- Option-B

Question22:-The minimum number of edges in a connected cyclic graph on 'n' vertices is

A:-n-1

B:-n

C:-n+1

D:-none of these

Correct Answer:- Option-C

Question23:-All digital circuits can be realized using only

A:-Ex-OR gates

B:-Half adders

C:-Multiplexers

D:-OR gates

Correct Answer:- Option-B

Question24:-The Bus is a group of _____ carrying digital signals.

A:-Wires

B:-Transistors

C:-Gates

D:-Registers

Correct Answer:- Option-A

Question25:-The functional capacity for VLSI devices is

A:-1 to 11 gates

B:-12 to 99 gates

C:-100 to 10,000 gates

D:-more than 10,000 gates

Correct Answer:- Option-D

Question26:-How many bits are required to encode all 26 letters, ten symbols and ten numerals?

A:-5

B:-6

C:-7

D:-46

Correct Answer:- Option-B

Question27:-When we move from the outermost track to the innermost track of a magnetic disk is usually?

A:-Increases

B:-Decreases

C:-Remains the same

D:-Either remain constant or decreases

Correct Answer:- Option-A

Question28:-In a microprocessor, the register which holds the address of the next instruction to be fetched is

A:-Accumulator

B:-Program counter

C:-Stack pointer
D:-Instruction register
Correct Answer:- Option-B

Question29:-Which of the following requires a device driver?

A:-Register
B:-Cache
C:-Disk
D:-Main memory
Correct Answer:- Option-C

Question30:-An attribute of one table matching the primary key of another table is called

A:-Foreign key
B:-Secondary key
C:-Candidate key
D:-Composite key
Correct Answer:- Option-A

Question31:-The average number of key comparisons done in a successful sequential search in a list of length n is

A:-log n
B:-log n*n
C:-log n/2
D:- $(n+1)/2$
Correct Answer:- Option-D

Question32:-Which of the following algorithms solves the all-pair shorter path problem?

A:-Dijkstra's algorithm
B:-Floyd's algorithm
C:-Prim's algorithm
D:-Warshall's algorithm
Correct Answer:- Option-B

Question33:-The post fix expression for the infix expression $A + B * (C + D)/F + D * E$ is

A:- $AB + CD + * F / D + E *$
B:- $ABCD + * F / + DE *+$
C:- $A * B + CD / F * DE++$
D:- $A + *BCD / F * DE++$
Correct Answer:- Option-B

Question34:-A distributed data processing configuration in which all activities must pass through a centrally located computer is called a

A:-Ring network
B:-Hierarchical network
C:-Spider network
D:-Data control network
Correct Answer:- Option-C

Question35:-What is the minimum number of wires required for sending data over a serial communication links?

A:-2
B:-1
C:-4
D:-3
Correct Answer:- Option-A

Question36:-Data warehousing refers to

A:-Storing data offline at a separate site
B:-Is related to data mining
C:-Back up data regularly
D:-Uses tape as opposed to disk
Correct Answer:- Option-A

Question37:-By means of a dataflow diagram, the analyst can detect

A:-Task duplication
B:-Unnecessary delays
C:-Task overlapping
D:-All of these
Correct Answer:- Option-D

Question38:-Assembly language uses

- A:-Hex code
- B:-Binary code
- C:-Mnemonics
- D:-ASCII code

Correct Answer:- Option-B

Question39:-8085 instruction set has _____ different instructions.

- A:-74
- B:-98
- C:-85
- D:-100

Correct Answer:- Option-A

Question40:-Lexical analyzer generates

- A:-Trees
- B:-Code
- C:-Tokens
- D:-Intermediate code

Correct Answer:- Option-C

Question41:-Recursive functions are executed in a

- A:-Last in first out order
- B:-First in first out order
- C:-Parallel fashion
- D:-All of these

Correct Answer:- Option-A

Question42:-What does the statement, printf("%d", 10? 0? 5:1:12); print?

- A:-10
- B:-0
- C:-12
- D:-11

Correct Answer:- Option-D

Question43:-Information in a memory that no longer valid or wanted is known as

- A:-Non-volatile
- B:-Volatile
- C:-Surplus
- D:-Garbage

Correct Answer:- Option-D

Question44:-A top-down parser generates

- A:-Left-most derivation
- B:-Right-most derivation
- C:-Right-most derivation in reverse
- D:-Left-most derivation in reverse

Correct Answer:- Option-A

Question45:-Which command in UNIX is used to save the standard output in a file, as well as display it on the terminal?

- A:-more
- B:-grep
- C:-cat
- D:-tee

Correct Answer:- Option-D

Question46:-Virtual memory is

- A:-An extremely large main memory
- B:-An extremely large secondary memory
- C:-An illusion of an extremely large memory
- D:-A type of memory used in the super computer

Correct Answer:- Option-C

Question47:-Which of the following is a service not supported by the operating system?

- A:-Protection
- B:-Accounting
- C:-Compilation
- D:-I/O operation

Correct Answer:- Option-C

Question48:-Distributed System should

- A:-Meet prescribed time constraints
- B:-Aim better resource sharing
- C:-Aim better system utilization
- D:-None of these

Correct Answer:- Option-B

Question49:-Waterfall model has _____ steps or phases.

- A:-5
- B:-4
- C:-8
- D:-6

Correct Answer:- Option-A

Question50:-A pointer variable can be

- A:-Passed to a function as argument
- B:-Changed with in a function
- C:-Returned by a function
- D:-Assigned an integer value

Correct Answer:- Option-C

Question51:-Basic path testing is

- A:-Both black and white box
- B:-White box testing method
- C:-Black box testing method
- D:-Can't say

Correct Answer:- Option-B

Question52:-The railway reservation system currently operational India can be classified as a

- A:-Batch system
- B:-Real time system
- C:-Online system
- D:-Expert system

Correct Answer:- Option-C

Question53:-Which of the following is a desirable property of a module?

- A:-Independency
- B:-Low cohesiveness
- C:-High coupling
- D:-Multi-functional

Correct Answer:- Option-A

Question54:-MFC's view class is derived from

- A:-CDVA
- B:-CcmdSource
- C:-cWndAll
- D:-CcmdTarget

Correct Answer:- Option-D

Question55:-The universal flip flop which can perform the function of any flip-flop is

- A:-JK Flip Flop
- B:-RS Flip Flop
- C:-Both (1) and (2)
- D:-None of these

Correct Answer:- Option-A

Question56:-A programming structure that contains data and a pointer to the next object is a

- A:-Template
- B:-Class
- C:-Pointer class
- D:-Linked list

Correct Answer:- Option-D

Question57:-A friend function can called

- A:-By using object of the class
- B:-Directly
- C:-Should not be called
- D:-Like a normal function

Correct Answer:- Option-C

Question58:-Which of the following operator may be overloaded?

- A:-. (member)
- B:-:: (scope resolution)
- C:-% (modulus)
- D:-?: (conditional)

Correct Answer:- Option-C

Question59:-A constructor always has

- A:-Communication cohesion
- B:-Temporal cohesion
- C:-Logical cohesion
- D:-No cohesion

Correct Answer:- Option-B

Question60:-In C programming language, which of the following type of operators have the highest precedence?

- A:-Arithmetic operators
- B:-Equality operators
- C:-Logical operators
- D:-Relational operators

Correct Answer:- Option-A

Question61:-Full adder is constructed by using

- A:-Two half adder and two OR gate
- B:-Two OR gates and one half adder
- C:-Two half adder and one OR gate
- D:-One half adder and one OR gate

Correct Answer:- Option-C

Question62:-Which of the following is the correct way of declaring a float pointer?

- A:-floatptr
- B:-float *ptr
- C:-*float ptr
- D:-*float *ptr

Correct Answer:- Option-B

Question63:-A relation in which the intersection of each row and column contains one and only one value is said to be in

- A:-First Normal form
- B:-Second Normal form
- C:-Third Normal form
- D:-Fourth Normal form

Correct Answer:- Option-A

Question64:-What will be the output of the following statement?

```
int i = 3 ;  
printf("%d%d", i, i++);
```

- A:-34
- B:-43
- C:-44
- D:-33

Correct Answer:- Option-D

Question65:-In any class structure, if A and B are the base class and C is inherited class from A and B, then such structure will be known as

- A:-Single inheritance
- B:-Multiple inheritance
- C:-Multilevel inheritance
- D:-Hierarchical inheritance

Correct Answer:- Option-B

Question66:-Which layer is immediately below the Data Link layer?

- A:-Physical
- B:-Network
- C:-Transport
- D:-Application

Correct Answer:- Option-A

Question67:-Binary search algorithm cannot be applied to

- A:-Sorted linked list
- B:-Sorted binary tree
- C:-Sorted linear array
- D:-Pointer array

Correct Answer:- Option-A

Question68:-Which of the following sorting algorithm is of Divide and Conquer type?

- A:-Bubble sort
- B:-Insertion sort
- C:-Quick sort
- D:-All of these

Correct Answer:- Option-C

Question69:-The depth of a complete binary tree is given by

- A:- $D_n = n \log_2 n$
- B:- $D_n = n \log_2 n + 1$
- C:- $D_n = \log_2 n$
- D:- $D_n = \log_2 n + 1$

Correct Answer:- Option-D

Question70:-If an array is declared as `inta[4] = {5, 0, 7, 4}` \, then values assigned to `a[0]` and `a[4]` will be

- A:-5 and 4
- B:-0 and 4
- C:-5 and 0
- D:-0 and 7

Correct Answer:- Option-C

Question71:-In C++, dynamic allocation is accomplished with the operator

- A:-new
- B:-this
- C:-malloc()
- D:-delete

Correct Answer:- Option-A

Question72:-In order to allow only one process to enter its critical section, binary semaphores are initialized to

- A:-0
- B:-1
- C:-2
- D:-3

Correct Answer:- Option-B

Question73:-Banker's algorithm for resource allocation deals with

- A:-Deadlock Prevention
- B:-Deadlock Avoidance
- C:-Deadlock Recovery
- D:-Mutual Exclusion

Correct Answer:- Option-B

Question74:-The knowledge base of AI computing includes both facts and

- A:-Theories
- B:-Heuristics
- C:-Algorithms
- D:-Analysis

Correct Answer:- Option-B

Question75:-What type of information is stored in the Phonological loop?

- A:-Visual Information
- B:-Auditory Information
- C:-Speech Based Information
- D:-Spatial Information

Correct Answer:- Option-C

Question76:-Which of the following is/are the application of expert system?

- A:-Control and monitoring
- B:-Debugging
- C:-Diagnosis
- D:-All of these

Correct Answer:- Option-D

Question77:-Another name of IEEE 802.11 a is

- A:-Wi-Max
- B:-Fast Ethernet
- C:-Wi-Fi
- D:-802.11 g

Correct Answer:- Option-C

Question78:-The largest decimal number that can be represented with 10 binary digit is

- A:-512
- B:-1024
- C:-1023
- D:-None of these

Correct Answer:- Option-C

Question79:-What will this program display?

```
#include <stdio.h>
Main ( )
{ float f;
f = 10 / 3;
printf("%f", f);
}
```

- A:-3.3
- B:-3.0
- C:-3.1
- D:-3.000000

Correct Answer:- Option-D

Question80:-Which of the following is invalid character constant in C language?

- A:-'a'
- B:-'b'
- C:-'\n'
- D:-'/n'

Correct Answer:- Option-D

Question81:-Which language has recently become the defacto standard for interfacing application programs with relational database system?

- A:-Oracle
- B:-SQL
- C:-dBase
- D:-4GL

Correct Answer:- Option-B

Question82:-Which of the following is not a logical database structure?

- A:-Tree
- B:-Relational
- C:-Chain
- D:-Network

Correct Answer:- Option-C

Question83:-Which of the following system software resides in memory always?

- A:-Text Editor
- B:-Assembler
- C:-Linker
- D:-Loader

Correct Answer:- Option-D

Question84:-In which addressing mode, the operand is given explicitly in the instruction?

- A:-Absolute mode
- B:-Immediate mode
- C:-Indirect mode
- D:-Index mode

Correct Answer:- Option-B

Question85:-Cyclomatic Complexity is given by $V(G) =$

- A:- $E - N + 2$
- B:- $E - N$
- C:- $E + N - 2$

D:-E + N

Correct Answer:- Option-A

Question86:-An OR gate has 6 inputs. What is the only input that produces a 0 output?

A:-000000

B:-000111

C:-111000

D:-111111

Correct Answer:- Option-A

Question87:-The entity Relationship model comes under

A:-Object Based Logical Model

B:-Record Based Logical Model

C:-Physical data Model

D:-None of these

Correct Answer:- Option-A

Question88:-Oracle is a _____ relational database management system.

A:-First Generation

B:-Second Generation

C:-Third Generation

D:-Fourth Generation

Correct Answer:- Option-D

Question89:-With SQL, how can you return the number of record in the "student" table

A:-SELECT COLUMNS(*) FROM student

B:-SELECT COUNT() FROM student

C:-SELECT COUNT(*) FROM student

D:-SELECT COLUMNS() FROM student

Correct Answer:- Option-C

Question90:-Half adder is logic circuit that adds _____ digits at time.

A:-One

B:-Two

C:-Three

D:-Zero

Correct Answer:- Option-B

Question91:-Which programming language is associated with Admiral Grace Hopper?

A:-LISP

B:-C

C:-BASIC

D:-COBOL

Correct Answer:- Option-D

Question92:-A schema describes

A:-data elements

B:-records and files

C:-record relationships

D:-all of these

Correct Answer:- Option-D

Question93:-Minimum number of record movement required to merge five files A (with 10 records), B (with 20 records), C (with 15 records), D (with 5 record) and E (with 25 records) is

A:-165

B:-90

C:-75

D:-65

Correct Answer:- Option-C

Question94:-A given connected graph G is a Euler graph if and only if all vertices of G are of

A:-Same degree

B:-Even degree

C:-Odd degree

D:-Different degree

Correct Answer:- Option-B

Question95:-In compilers, the syntax analysis is done by

A:-Lexical Analyzer

- B:-Scanner
- C:-Parser
- D:-Code Generator

Correct Answer:- Option-C

Question96:-The bubble sort would compare the code [x] element to the _____ element.

- A:-code [x + 1]
- B:-code [x + 2]
- C:-code [x + 2x]
- D:-All of these

Correct Answer:- Option-D

Question97:-Correct HTML tag for the largest heading is

- A:-<h1>
- B:-<h6>
- C:-<heading>
- D:-<head>

Correct Answer:- Option-A

Question98:-The symbol table implementation is based on the property of locality of reference is

- A:-Linear List
- B:-Hash table
- C:-Search Tree
- D:-Self-organization list

Correct Answer:- Option-B

Question99:-Data structuring is defined through a process called

- A:-Structuring process
- B:-Hierarchical structure
- C:-Normalization
- D:-Relation structure

Correct Answer:- Option-C

Question100:-OLAP is acronym for online

- A:-Analytical Project
- B:-Analytical Processing
- C:-Application Process
- D:-None of these

Correct Answer:- Option-B