

Section 1 - Section 1

Question No.1

4.00

Bookmark

What is the maximum number of arguments that can be passed in a single function in C?

- 8
- 253
- 361
- 127

Question No.2

4.00

Bookmark

Identify the adverb in the following sentence:

We looked upwards and saw a bright shooting star

- upwards
- shooting
- looked
- bright

Question No.3

4.00

Bookmark

Which of the following is characteristic of Processed Data ?

- Data is ready for analysis
- All steps should be noted
- Hard to use for data analysis
- None of the mentioned

Question No.4

4.00

Bookmark

Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is:

- 273 m
- 300 m
- 200 m
- 173 m

Question No.5

4.00

Bookmark

Which of the following logical formulas is logically equivalent to $(p \rightarrow r) \wedge (q \rightarrow r)$? \rightarrow represents the logical IMPLIES connective, \wedge represents the logical AND connective and \vee represents the logical OR connective.

- $(p \wedge q) \rightarrow r$
- $(p \vee q) \rightarrow r$
- $r \rightarrow (p \wedge q)$
- $r \rightarrow (p \vee q)$

Question No.6

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Bookmark

Choose the missing term: SHG, RIF, QJE, PKD, ?

- OLC
- OLD
- MLB
- NMD

Question No.7

4.00

Bookmark

Which of the following true about FILE *fp

- FILE is a buffered stream
- FILE is a keyword in C for representing files and fp is a variable of FILE type
- FILE is a structure and fp is a pointer to the structure of FILE type
- FILE is a stream

Question No.8

4.00

Bookmark

In the context of "break" and "continue" statements in C, pick the best statement.

- "break" can be used in "for", "while" and "do-while" loop body.
- "break" and "continue" can be used in "for", "while", "do-while" loop body and "switch" body.
- "continue" can be used in "for", "while" and "do-while" loop body.
- "break" and "continue" can be used in "for", "while" and "do-while" loop body. But only "break" can be used in "switch" body.

Question No.9

4.00

Bookmark

A user can get files from another computer on the internet by using

- utp
- telnet
- http
- ftp

Question No.10

4.00

Bookmark

Median of 7, 6, 4, 8, 2, 5, 11 is

- 4
- 8
- 12
- 11

Question No.11

4.00

Bookmark

What does the following C-statement declare? `int (*f)(int *)`;

- A function that takes an integer pointer as argument and returns an integer
- A function that takes an integer pointer as argument and returns a function pointer
- A pointer to a function that takes an integer pointer as argument and returns an integer.
- A function that takes an integer as argument and returns an integer pointer.

Question No.12

4.00

Bookmark

$(1010.011)_2$

- $(11.365)_{10}$
- $(10.365)_{10}$
- $(10.375)_{10}$
- $(11.375)_{10}$

Question No.13

4.00

Bookmark

Which of the following is a comment on the line of code below?

```
const int *ptr;
```

- You cannot change the pointer ptr itself.
- You can change the pointer as well as the value pointed by it.
- You may or may not change the value pointed by ptr.

you cannot change the value pointed by ptr.

Question No.14

4.00

Bookmark

Pointing to a photograph, a woman says, "This man's son's sister is my mother-in-law." How is the woman's husband related to the man in the photograph?

- Son-in-law
- Nephew
- Grandson
- Son

Question No.15

4.00

Bookmark

The contrapositive of the conditional statement $p \rightarrow q$ (\rightarrow means the logical IMPLIES connective) is

- $\neg q \rightarrow \neg p.$
- $\neg p \rightarrow \neg q.$
- $q \rightarrow p.$
- $\neg q \rightarrow p.$

Question No.16

4.00

Bookmark

Predict output of the C code given below

```
#include <stdio.h>
int main()
{
    float f1 = 0.1;
    if (f1 == 0.1)
        printf("equal\n");
    else
        printf("not equal\n");
}
```

- Equal
- Not equal
- Output depends on the compiler
- Code does not compile

Question No.17

4.00

Bookmark

Which of the following is true about arrays in C.

- For every type T, there can be an array of T
- 2D arrays are stored in column major form

- When an array is passed to a function, C compiler creates a copy of array.
- For every type T except void and function type, there can be an array of T.

Question No.18

4.00

Bookmark

In fopen(), the open mode "wx" is sometimes preferred over "w" because. 1) Use of wx is more efficient. 2) If w is used, old contents of file are erased and a new empty file is created. When wx is used, fopen() returns NULL if file already exists.

- only 2
- Both 1 and 2
- Only 1
- neither 1 and 2

Question No.19

4.00

Bookmark

What does error 404 or Not Found error while accessing a URL mean?

- The requested HTML file does not have sufficient permissions
- Requested HTML file is not available
- The server could not find the requested URL
- The path to the interpreter of the script is not valid

Question No.20

4.00

Bookmark

How many solutions does the equation $x_1 + x_2 + x_3 = 11$ have, where x_1, x_2 and x_3 are non-negative integers?

- 68
- 58
- 78
- 88

Question No.21

4.00

Bookmark

In C programming language, # define is a

- Function
- Operator
- Pre-processor
- None of these

Question No.22

4.00

Bookmark

Suppose a C program has floating constant 1.414, what's the best way to convert this as "float" data type?

- 1.414 itself of "float" data type i.e. nothing else required.
- (float)1.414
- float(1.414)
- 1.414f or 1.414F

Question No.23

4.00

Bookmark

The reason for using pointers in a C program is

- Pointers allow different functions to share and modify their local variables.
- To pass large structures so that complete copy of the structure can be avoided.
- Pointers enable complex "linked" data structures like linked lists and binary trees.
- All of the Above

Question No.24

4.00

Bookmark

Compute the next item in the series: 5. 8. 13. 21. 34. ?

- 55
- 56
- 88
- None of the above

Question No.25

4.00

Bookmark

Are logical operators in C evaluated with shortcut evaluation?

- Depends on compiler
- No
- Depends on platform
- Yes

Question No.26

4.00

Bookmark

Anand is heavier than Gopal.Mohan is lighter than Jagan.Pandian is heavier than Jagan but lighter than Gopal. Who is the heaviest of all ?

- Anand
- Pandian
- Gopal
- Jagan

Question No.27

4.00

Bookmark

In the game of Sudoku, let the predicate $p(i, j, n)$ represent that the cell in row i and column j contains value n . Which of the following formulas asserts that every column contains all the numbers? \wedge represents logical AND, \vee represents logical OR.

- $\bigwedge_{i=1}^9 \bigwedge_{n=1}^9 \bigvee_{j=1}^9 p(i, j, n)$
- $\bigwedge_{j=1}^9 \bigwedge_{n=1}^9 \bigvee_{i=1}^9 p(i, j, n)$
- $\bigvee_{j=1}^9 \bigwedge_{n=1}^9 \bigvee_{i=1}^9 p(i, j, n)$
- $\bigwedge_{j=1}^9 \bigwedge_{n=1}^9 \bigwedge_{i=1}^9 p(i, j, n)$

Question No.28

4.00

Bookmark

In the following question, the first two words (given in italics) have a definite relationship. Choose one word out of the given four alternatives which will fill the blank space and show the same relationship with the third word as between the first two.

Truthfulness is to *Liar* as *Loyalty* is to?.....

- Worker
- Falsehood
- Traitor
- Devotion

Question No.29

4.00

Bookmark

Let A be a set, Φ represent the empty set and let \times represent the Cartesian product operation over sets. Which of the following is equivalent to $\Phi \times A$?

We cannot take the Cartesian product of a set A with the empty set.

Φ

$A \times A$

A

Question No.30

4.00

Bookmark

What is the cardinality of the set $\{a, \{a\}, \{a, \{a\}\}$?

Two

Three

Four

This is not a set

Question No.31

4.00

Bookmark

Which of the following is a list of data protocols that are used in IoT applications?

6LowPAN, IPv4/IPv6

TCP/IP, UDP

WiFi, Bluetooth

MQTT, CoAP, AMQP

Question No.32

4.00

Bookmark

The first network that planted the seeds of internet was

ARPANET

NSFNet

Vnet

None of the mentioned

Question No.33

4.00

Bookmark

Which of the following is used to convert URL in to IP address?

CSS

DNS

AJAX

None of these

Question No.34

4.00

Bookmark

stderr is similar to which of the following?

stdout

Not similar to any of the above

Both stdout and stdin

stdin

Question No.35

4.00

Bookmark

Identify the odd item

PASCAL

FORTRAN

COBOL

OS/2

Question No.36

4.00

Bookmark

Which of the following operators can be applied on structure variables?

- Equality comparison (==)
- Assignment (=)
- < and >
- None of the Mentioned

Question No.37

4.00

Bookmark

Which of the following Linux Distribution(s) is/are developed in India with focus on Indian Language Interface?

- Ubuntu
- RedHat
- BOSS
- None of these

Question No.38

4.00

Bookmark

In binary logic, complement of the expression $A'B + CD'$ is

- $(A'+B)(C'+D)$
- $(A+B')(C'+D)$
- $(A'+B)(C+D')$
- $(A+B')(C+D')$

Question No.39

4.00

Bookmark

Let A , B and C be sets. Which of the following is equivalent to $\overline{(A \cup (B \cap C))}$?
 \overline{A} represents the complement of the set A .

- $(\overline{C} \cap \overline{B}) \cup \overline{A}$
- $(\overline{C} \cup \overline{B}) \cap \overline{A}$
- $(\overline{A} \cup \overline{B}) \cap (\overline{A} \cup \overline{C})$
- $(\overline{A} \cap \overline{B}) \cup (\overline{A} \cap \overline{C})$

Question No.40

4.00

Bookmark

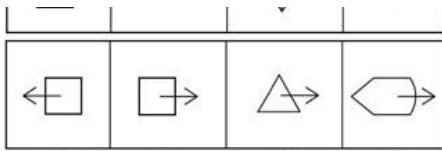
pragma startup is primarily used for which of the following?

- Cleaning memory before program execution starts
- Informing the operating system about a crash
- Execute a function before the main function
- Execute a function soon after the main function

Question No.41

4.00

Bookmark 



- (A) D
 B
 C
 A

Question No.42

4.00

Bookmark

Suppose n and p are unsigned int variables in a C program. We wish to set p to ${}^n C_3$. If n is large, which of the following statements is most likely to set p correctly?

- $p = n * (n-1) * (n-2) / 6.0;$
 $p = n * (n-1) / 2 * (n-2) / 3;$
 $p = n * (n-1) * (n-2) / 6;$
 $p = n * (n-1) / 3 * (n-2) / 2;$

Question No.43

4.00

Bookmark

Which of the following is true about the logical formula $(p \wedge q) \rightarrow (p \vee q)$?

- It is not a well-formed formula.
 It is just a satisfiable formula.
 It is a contradiction
 It is a tautology

Question No.44

4.00

Bookmark

How many Permutations of the letters of the word APPLE are there?

- 60
 240
 120
 600

Question No.45

4.00

Bookmark

Three matrices A , B and C have to be multiplied. Which of the following represents a sequence of dimensions of the three matrices for which their multiplication is well-defined?

- A is a $m \times n$ matrix, B is a $n \times n$ matrix and C is a $m \times m$ matrix.
 A is a $m \times n$ matrix, B is a $m \times n$ matrix and C is a $n \times m$ matrix.
 A is a $m \times n$ matrix, B is a $m \times k$ matrix and C is a $m \times p$ matrix.
 A is a $m \times n$ matrix, B is a $n \times k$ matrix and C is a $k \times p$ matrix.

Question No.46

4.00

Bookmark

Situation in which not a single row is linear combination of remaining rows is classified as

- identity dependence
 linearly dependant
 linearly independent
 identity independence

Question No.47

4.00

Bookmark

If Milk is water, water is sugar, sugar is road, road is sky and sky is track where do aeroplanes fly?

- Milk
 Sky
 Sugar

Road

Question No.48

4.00

Bookmark

Which of the following machine learning algorithm works with continuous data?

- Classification
- Dimensionality reduction
- Clustering
- Regression

Question No.49

4.00

Bookmark

Which of the following is associated with Block chain technology?

- Bitcoin
- Worm
- Virus
- Cybercoin

Question No.50

4.00

Bookmark

In the context of Web, CSS stands for

- Cascaded Style Sheets
- Closed Style Sheets
- Color Style Sheets
- None of these

Question No.51

4.00

Bookmark

The cube root of .000216 is:

- 87
- 0.06
- 0.6
- 77

Question No.52

4.00

Bookmark

Array of elements in rectangular arrangement is classified as

- Linked List
- elements array
- elements
- matrix

Question No.53

4.00

Bookmark

Bristle : Brush

- Stage: Chairs
- Arm : Leg
- Key: Piano
- Art: Sculpture

Question No.54

4.00

Bookmark

Choose the best synonym of the italicized word.

Reena has an *insatiable* love for music.

- unquenchable
- unchanging
- undesirable

irreconcilable

Question No.55

4.00

Bookmark

What is the output of the following C code?

```
#include <stdio.h>
void main()
{
    int i = 2;
    do
    {
        printf("Hi");
    } while (i < 2)
}
```

- Hi
- No output
- Compile time error
- Hi Hi

Question No.56

4.00

Bookmark

Which of the following represents the type (extension) of file for a mobile application that one would download from Google Play Store?

- .ipa extension
- .jar extension
- .exe extension
- .apk extension

Question No.57

4.00

Bookmark

The action 'STACK(A, B)' of a robot arm specify to

- Place block B on Block A
- Place blocks B, A on the table in that order
- Place blocks A, B on the table in that order
- Place block A on block B

Question No.58

4.00

Bookmark

Assertion: Crude oil is abundantly found in nature

Reason: It is the main raw material for all automobiles

- Both A and R are true and R is not the correct explanation of A
- A is false but R is true
- Both A and R are true and R is the correct explanation of A
- A is true but R is false

Question No.59

4.00

Bookmark

These poultry belong to Mr. Kishen, our new neighbor
The underlined word is a _____ noun.

- abstract
- common

- common
- collective
- proper

Question No.60

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 pairs of lectures were organised on first and last day?

- Quality Circle and Motivation
- Group Discussion and Quality Circle
- Group Discussion and Decision Making
- None of these

Question No.61

4.00

Bookmark

What does the following C statement mean? `scanf("%4s", str);`

- Read maximum 4 characters from console.
- Read exactly 4 characters from console.
- Read a string str in multiples of 4
- Nothing

Question No.62

4.00

Bookmark

Study the following information carefully and answer the question below it

- (i) There is a group of five persons- A, B, C, D and E
- (ii) One of them is manual scavenger, one is sweeper, one is watchman, one is human scarecrow and one is grave-digger
- (iii) Three of them – A, C and grave-digger prefer tea to coffee and two of them – B and the watchman prefer coffee to tea
- (iv) The human scarecrow and D and A are friends to one another but two of these prefer coffee to tea.
- (v) The manual scavenger is C's brother

Which of the above statements is unnecessary?

- (iii)
- (ii)
- Nil
- (iv)

Question No.63

4.00

Bookmark

Which of the following is not a logical operator?

- ||
- !
- &&
- =>

Question No.64

4.00

Bookmark

What is the output of the following C code?

```
include <stdio.h>
void main()
{
```

```
#define max 37;
printf("%d", max);
}
```

- Compile time error
- max
- Depends on compiler
- 37

Question No.65

4.00

Bookmark

Automatic variables in C are allocated memory in

- Code segment
- Stack
- Data segment
- Heap

Question No.66

4.00

Bookmark

What is the output of the following C code?

```
#include <stdio.h>
struct point
{
    int x;
    int y;
};
void foo(struct point*);
int main()
{
    struct point p1 = {1, 2};
    foo(&p1);
}
void foo(struct point *p)
{
    printf("%d\n", *p->x++);
}
```

- 1
- 2
- Compile time error
- Segmentation fault

Question No.67

4.00

Bookmark

The least perfect square, which is divisible by each of 21, 36 and 66 is:

- 214344
- 231444
- 213444
- 214434

Question No.68

4.00

Bookmark

Study the following information carefully and answer the question below it:

Aasha, Bhuvnesh, Charan, Danesh, Ekta, Farhan, Ganesh and Himesh are sitting around a circle, facing the centre. Aasha sits fourth to the right of Himesh while second to the left of Farhan. Charan is not the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right of Charan. Himesh never sits next to Ganesh.

Who is to the immediate left of Aasha?

- Ganesh
- Charan
- Aasha
- Bhuvnesh

Question No.69

4.00

Bookmark

What is the output of the C code below?

```
#include <stdio.h>
void main()
{
    int a[3] = {1, 2, 3};
    int *p = a;
    printf("%p\t%p", p, a);
}
```

- Same address printed
- Compile time error
- No output
- Different address printed

Question No.70

4.00

Bookmark

In arithmetic progression, if $d = -4$, $n = 7$, $a_n = 4$, then a is

- 28
- 20
- 6
- 7

Question No.71

4.00

Bookmark

Let p be the proposition “You drive over 80 kilometres per hour.” and let q be the proposition “You get a speeding ticket.”. Which of the following formulas represents the statement “Whenever you get a speeding ticket, you are driving over 80 kilometres per hour”? In the options below, \rightarrow represents the logical IMPLIES connective and \wedge represents the logical AND connective.

- $q \rightarrow \neg p.$
- $p \wedge \neg q.$
- $q \rightarrow p.$
- $p \rightarrow q.$

Question No.72

4.00

Bookmark

Which pre-defined function returns a pointer to the last occurrence of a character in a string?

- `strchr(s, c);`
- `strlchr(s, c);`
- `strrchr(s, c);`
- `strfchr(s, c);`

Question No.73

4.00

Bookmark

X is twice as good a workman as Y and together they finish a piece of work in 18 days. In how many days will X alone finish the work?

- 27
- 28
- 25
- 26

Question No.74

4.00

Bookmark

A quadratic polynomial with real number coefficients has,

- More than two real roots
- Exactly two real roots
- Exactly two roots that are natural numbers
- At most two real roots

Question No.75

4.00

Bookmark

The term Ajax is best described by which of the following?

- A single technology that can be used to implement a web application in the client side.
- A single technology that can be used to implement a web application in the server side.
- A group of technologies that can be used to implement a web application in the client side.
- A group of technologies that can be used to implement a web application in the server side.

Question No.76

4.00

Bookmark

The mother gripped her child's arm _____ he be trampled.

- lest
- unless
- if
- if not

Question No.77

4.00

Bookmark

Which combination of the integer variables x, y and z makes the variable a get the value 4 in the following expression? $a = (x > y) ? ((x > z) ? x : z) : ((y > z) ? y : z)$

- x = 3, y = 4, z = 2
- x = 6, y = 3, z = 5
- x = 5, y = 4, z = 5
- x = 6, y = 5, z = 3

Question No.78

4.00

Bookmark

If you want to align text to the right side of a block element in a cascading style sheet (CSS) then which of the following property would you use?

- Justify
- Text Align
- Right Align
- Left Align

Question No.79

4.00

Bookmark

Which of the following is true

- gets() can read a string with newline characters but a normal scanf() with %s can not.
- gets() can read a string with spaces but a normal scanf() with %s can not.
- gets() can always replace scanf() without any additional code.
- None of the Mentioned

Question No.80

4.00

Bookmark

As a country, the United States is _____ that there are five time zones.

- so big
- much big
- too big
- very big

Question No.81

4.00

Bookmark

The function/macro putchar(c) always outputs character c to the

- Depends on the compiler
- Standard output
- Screen
- Depends on the standard

Question No.82

4.00

Bookmark

The communication protocol used by Internet is

- HTTP
- FTP
- WWW
- TCP/IP

Question No.83

4.00

Bookmark

The malicious software used to attack the systems are called as

- Malware

- Embedware
- Freeware
- Closeware

Question No.84

4.00

Bookmark

Which of the following causes an error?

- Trying to read a file that doesn't exist.
- Inability to write data in a file.
- Failure to allocate memory with the help of malloc.
- All of the items above.

Question No.85

4.00

Bookmark

In a Javascript Application what function can be used to send messages to users requesting for a text input?

- Prompt()
- Alert()
- Display()
- GetOutput()

Question No.86

4.00

Bookmark

Which of the following statements is correct for a switch controlling expression?

- Both int and char can be used in "switch" control expression
- All types i.e. int, char and float can be used in "switch" control expression
- "switch" control expression can be empty as well.
- Only int can be used in "switch" control expression.

Question No.87

4.00

Bookmark

What is the use of "#pragma once"?

- Used to avoid multiple declarations of the same variable.
- Used to avoid assertions
- To cause the current source file to be included only once in a single compilation
- Used in a C file to include a header file at least once

Question No.88

4.00

Bookmark

_____ computing refers to applications and services that run on a distributed network using virtualized resources.

- Cloud
- Parallel
- Soft
- Distributed

Question No.89

4.00

Bookmark

Which of the following is NOT a protocol?

- IMAP
- SMTP
- HTTP
- CSS

Question No.90

4.00

Bookmark

Process in which elements of a matrix are combined together to compute a real-valued number is classified as

- matrix combination
- determinant

- real combination
- optimization

Question No.91

4.00

Bookmark

The function `tolower(c)` defined in library works for which of the following.

- Unicode character set
- Any character set
- Ascii and utf-8 but not EBSIDIC character set
- Ascii character set

Question No.92

4.00

Bookmark

Correct the error in the italicized part of the sentence by choosing the most appropriate option.
Whenever the two sisters *go out for shopping*, they take their pet dog with them.

- go out of shopping
- go out shopping
- go out on shopping
- go out to shopping

Question No.93

4.00

Bookmark

What is the output of this C code (if run with no options or arguments)?

```
#include <stdio.h>
int main(int argc, char *argv[])
{
    printf("%d\n", argc);
    return 0;
}
```

- 0
- 1
- Depends on the compiler
- Compile time error

Question No.94

4.00

Bookmark

Choose the best antonym of the italicized word.
The task assigned to him was *arduous*.

- good
- easy
- absorbing
- plain

Question No.95

4.00

Bookmark

8723 in BCD equals

- 1000 0001 0010 0011
- 1000 0111 0110 0011
- 1000 0111 0010 0011
- 1000 0101 0010 0011

Question No.96

4.00

Bookmark

Due to _____, the subways were closed all morning.

- floods
- its flooding
- flood
- are flooded

Question No.97

4.00

Bookmark

Mode of 12, 17, 16, 14, 13, 16, 11, 14 is

- 14
- 11
- 13
- 14 and 16

Question No.98

4.00

Bookmark

Which of the following lists the service models of cloud computing?

- REST services, SOAP
- Infrastructure as a Service, Platform as a Service, Software as a Service
- Cloud clients
- Service oriented architecture

Question No.99

4.00

Bookmark

Based on the information given, answer the below question.

1. A,B,C,D,E and F are travelling in a bus.
2. There are two reporters, two mechanics, one photographer and one writer in the group.
3. Photographer A is married to D who is a reporter.
4. The writer is married to B who is of the same profession as that of F.
5. A,B,C,D are two married couples and no one in this belong to the same profession.
6. F is the brother of C.

Which of the following is the pair of reporters?

- AE
- DE
- Cannot be determined
- DF

Question No.100

4.00

Bookmark

Which of the following is not a valid variable name declaration in C?

- int _a3
- int a_3
- int 3_a
- int a3