

CSC 102F

B.Sc. Ist SEMESTER EXAMINATION, 2024-25

COMPUTER SCIENCE

(Problem Solving Using Computer)



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RUBBER STAMP

Paper ID

(To be filled in the
OMR Sheet)

Date (तिथि) : _____

1019

अनुक्रमांक (अंकों में) :

Roll No. (In Figures)

अनुक्रमांक (शब्दों में) :

Roll No. (In Words) :

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Time : 1:30 Hrs.

समय : 1:30 घण्टे

Max. Marks : 75

अधिकतम अंक : 75

नोट : पुस्तिका में 50 प्रश्न दिये गये हैं, सभी प्रश्न करने होंगे। प्रत्येक प्रश्न 1.5 अंक का होगा।

Important Instructions :

1. The candidate will write his/her Roll Number only at the places provided for, i.e. on the cover page and on the OMR answer sheet at the end and nowhere else.
2. Immediately on receipt of the question booklet, the candidate should check up the booklet and ensure that it contains all the pages and that no question is missing. If the candidate finds any discrepancy in the question booklet, he/she should report the invigilator within 10 minutes of the issue of this booklet and a fresh question booklet without any discrepancy be obtained.

महत्वपूर्ण निर्देश :

1. अभ्यर्थी अपने अनुक्रमांक केवल उन्हीं स्थानों पर लिखेंगे जो इसके लिए दिये गये हैं, अर्थात् प्रश्न पुस्तिका के मुख्य पृष्ठ तथा साथ दिये गये ओ०एम०आर० उत्तर पत्र पर, तथा अन्यत्र कहीं नहीं लिखेंगे।
2. प्रश्न पुस्तिका मिलते ही अभ्यर्थी को जाँच करके सुनिश्चित कर लेना चाहिए कि इस पुस्तिका में पूरे पृष्ठ हैं और कोई प्रश्न छूटा तो नहीं है। यदि कोई विसंगति है तो प्रश्न पुस्तिका मिलने के 10 मिनट के भीतर ही कक्ष परिप्रेक्षक को सूचित करना चाहिए और बिना त्रुटि की दूसरी प्रश्न पुस्तिका प्राप्त कर लेना चाहिए।

1. % (modulus) operator is used for :
 - (A) int variable
 - (B) float variable
 - (C) char variable
 - (D) long variable

2. The following segment will give output as `printf("%d", 'A');`
 - (A) ASCII value of 'A'
 - (B) Gray code of 'A'
 - (C) Compile time error
 - (D) Error message

3. Do _____ while loop is known as :
 - (A) Entry controlled loop
 - (B) Exit controlled loop
 - (C) Conditional structure
 - (D) Case structure

4. Which of the following is a storage specifier?
 - (A) enum
 - (B) union
 - (C) auto
 - (D) volatile

5. Which keyword is used to prevent any changes in the variable within a C program?
- (A) immutable
 - (B) mutable
 - (C) const
 - (D) volatile
6. What is an example of iteration in C?
- (A) for
 - (B) while
 - (C) do-while
 - (D) all of the mentioned
7. Which of the following is known as the language made up of binary-coded instructions?
- (A) High level
 - (B) BASIC
 - (C) C
 - (D) Machine
8. Who is Known as the father of Computers?
- (A) James Gosling
 - (B) Charles Babbage
 - (C) Dennis Ritchie
 - (D) Bjarne Stroustrup

9. Which of the following storage device can store maximum amount of data?
- (A) Floppy disk
 - (B) Hard disk
 - (C) Compact disk
 - (D) None of above
10. Which function is compulsory in every C program?
- (A) printf()
 - (B) printf
 - (C) main()
 - (D) None of these
11. In C, we used for input/Output?
- (A) Cin & Cout
 - (B) Input & Output
 - (C) Scanf & Printf
 - (D) Both (B) & (C)
12. In which language there is only one meaning of each instruction?
- (A) Programming
 - (B) Natural
 - (C) Symbolic
 - (D) Numeric

13. How many computer generations are there?
- (A) 1
 - (B) 2
 - (C) 4
 - (D) 5
14. Textual representation of a program is called :
- (A) Algorithm
 - (B) Flowchart
 - (C) Dry run
 - (D) None of these
15. What is the default value of local variable?
- (A) 0
 - (B) 1
 - (C) Garbage
 - (D) Null
16. Which of the following is a logical NOT operator?
- (A) !!
 - (B) &&
 - (C) !
 - (D) All of these

17. The format identifier '%c' is used for which data type?
- (A) int
 - (B) double
 - (C) char
 - (D) float
18. Break statement is known as by which another name?
- (A) Exit Loop
 - (B) Close Loop
 - (C) Quit Loop
 - (D) Escape Loop
19. How many types of loop in C?
- (A) One
 - (B) Two
 - (C) Three
 - (D) Ten
20. 1 GB is equal to :
- (A) 1250 megabytes
 - (B) 1296 megabytes
 - (C) 1150 megabytes
 - (D) 1024 megabytes

21. Step 1 - Start

Step 2 - Read a and b

Step 3 - Check $a > b$ then print a

Step 4 - Check $b > a$ then print b

Step 5 - stop

Above algorithm is for _____:

(A) Finding minimum number from two number

(B) Finding Maximum number from two number

(C) Multiplication of two number

(D) None of Above

22. Which of the following is not a characteristic of an algorithm?

(A) Finiteness

(B) Definiteness

(C) Infiniteness

(D) Input and Output

23. When if statement is used in another if statement what is it called?

(A) if...else

(B) switch

(C) nested if

(D) if

24. Which file has to be included to make use of library function?
- (A) Header file
 - (B) Footer file
 - (C) Data file
 - (D) Character file
25. In C a pointer variable to an integer can be created by the declaration :
- (A) `int p*`
 - (B) `int *p`
 - (C) `int +p`
 - (D) `int →p`
26. A pointer is :
- (A) A keyword used to create variables
 - (B) A variable that stores address of an instruction
 - (C) A variable that stores address of other variable
 - (D) All of the above
27. In C, which function we use to clear the console?
- (A) `Getch ()`
 - (B) `Clrscr ()`
 - (C) `Clearscr ()`
 - (D) `Clearscreen ()`

28. In which datatype the size is not fixed?

- (A) int
- (B) float
- (C) double
- (D) struct

29. What will be the output of the following C code?

```
#include <stdio.h>

int main()
{
    int a = 1, b = 1, c;
    c = a++ + b;
    printf(“%d, %d”, a, b);
}
```

- (A) a = 1, b = 1
- (B) a = 2, b = 1
- (C) a = 1, b = 2
- (D) a = 2, b = 2

30. Which among the following is not a logical or relational operator?

- (A) !=
- (B) ==
- (C) ||
- (D) =

31. What is required in each C program?
- (A) The program must have at least one function.
 - (B) The program does not require any function.
 - (C) Input data
 - (D) Output data
32. What is the output of this statement “printf(“%d”, (a++))”?
- (A) The value of(a + 1)
 - (B) The current value of a
 - (C) Error message
 - (D) Garbage
33. Comment on the following pointer declaration :
- ```
int *ptr, p;
```
- (A) ptr is a pointer to integer, p is not
  - (B) ptr and p, both are pointers to integer
  - (C) ptr is a pointer to integer, p may or may not be
  - (D) ptr and p both are not pointers to integer
34. Which of the following are themselves a collection of different data types?
- (A) string
  - (B) structures
  - (C) char
  - (D) all of the mentioned

35. Which of the following is a correct format for declaration of function?
- (A) return-type function-name(argument type);
  - (B) return-type function-name(argument type){}
  - (C) return-type (argument type)function-name;
  - (D) all of the mentioned
36. The value obtained in the function is given back to main by using \_\_\_ keyword.
- (A) return
  - (B) static
  - (C) new
  - (D) volatile
37. Which of the following is not a proper storage class in 'C'?
- (A) auto
  - (B) dec
  - (C) static
  - (D) extern
38. Which of the following is not a valid C variable name?
- (A) int number;
  - (B) float rate;
  - (C) int variable-count;
  - (D) int \$main;

39. What is the precedence of arithmetic operators (from highest to lowest)?
- (A) %, \*, /, +, —
  - (B) %, +, /, \*, —
  - (C) +, —, %, \*, /
  - (D) %, +, —, \*, /
40. Which of the following is true for variable names in C?
- (A) They can contain alphanumeric characters as well as special characters
  - (B) It is not an error to declare a variable to be one of the keywords (like goto, static)
  - (C) Variable names cannot start with a digit
  - (D) Variable can be of any length
41. All keywords in C are in \_\_\_\_\_ :
- (A) Lower Case letters
  - (B) Upper Case letters
  - (C) Camel Case letters
  - (D) None of the mentioned
42. A \_\_\_\_\_ is diagram that depicts the flow of a program.
- (A) Algorithm
  - (B) Hash Table
  - (C) Graph
  - (D) Flowchart

43. Group of elements having same datatypes is called what?
- (A) Library
  - (B) Array
  - (C) Numeric
  - (D) Alphabetic
44. What is constant?
- (A) Constants have fixed values that do not change during the execution of a program
  - (B) Constants have fixed values that change during the execution of a program
  - (C) Constants have unknown values that may be change during the execution of a program
  - (D) None of these
45. C programs are converted into machine language with the help of ;
- (A) An Editor
  - (B) A compiler
  - (C) An operating system.
  - (D) None of the above
46. In computer system, 1 Nibble equal to \_\_\_\_\_ :
- (A) 1 bit
  - (B) 8 bytes
  - (C) 4 bit
  - (D) 1 kb

47. What keyword we put before to declare a character variable ?
- (A) Int
  - (B) Char
  - (C) Float
  - (D) Double
48. Which of the following Web Browser is developed by Microsoft?
- (A) Chrome
  - (B) Internet Explorer
  - (C) Mozilla
  - (D) Opera
49. What is operator ?
- (A) A set of Data
  - (B) A set of Language
  - (C) A set of Symbol
  - (D) All Above
50. What is the answer of  $8\%5$ ?
- (A) 3
  - (B) 4
  - (C) 1.6
  - (D) 1

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