



खण्ड-ब (बहुविकल्पीय)
Section-B (Objective)
COA 104

B.A/B.Sc. IInd Semester EXAMINATION, 2022
Computer Application
(Problem Solving Using Computer)
Credit (4+0)
(CBCS Mode)

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Paper ID

(To be filled in the
OMR Sheet)

Date (तिथि) : _____

5011

अनुक्रमांक (अंकों में) :

Roll No. (In Figures) :

अनुक्रमांक (शब्दों में) :

Roll No. (In Words) : _____

Time : 1½ Hrs.

समय : 1½ घण्टे

Max. Marks : 60

अधिकतम अंक : 60

नोट : पुस्तिका में 40 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 उन्ही स्थानों पर लिखेंगे जो इसके लिए दिये गये हैं, अर्थात् प्रश्न पुस्तिका के मुख्या 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. Which of the following is not an arithmetic operation ?
- (A) `a * = 10;`
 - (B) `a / = 10;`
 - (C) `a ! = 10;`
 - (D) `a % = 10;`
2. Which of the following are themselves a collection of different data types ?
- (A) String
 - (B) Structures
 - (C) Char
 - (D) All of the mentioned
3. Which are not looping structures ?
- (A) For loop
 - (B) While loop
 - (C) Do .. while loop
 - (D) It.. Else
4. What will be value of i and j after executing the following program ?
- ```
include <stdio.h>
void main ()
{
 int i, j ;
 for (i = 0, j=0; i < 10, j < 20; i ++, j ++)
 {print t ("i=%d\t j=%d" ,i,j);
 }
}
```
- (A) 10 10
  - (B) 10 20
  - (C) 20 20
  - (D) Run time error

5. What will be the final value of x in the following C code ?

```
include <stdio.h>
```

```
void main ()
```

```
{
```

```
int x=5 *9 / 3+9 ;
```

```
}
```

(A) 3.75

(B) Depends on compiler

(C) 24

(D) 3

6. What is the size of (char) in 32-bit C compiler?

(A) 1 bit

(B) 2 bit

(C) 1 Byte

(D) 2 Bytes

7. Which of the following declaration is not supported by C language ?

(A) String str ;

(B) Char \* str ;

(C) Float str =3e2 ;

(D) Both string str ; & Flout str = 3e2;

8. What is short int in C programming ?

(A) Basic data type of C

(B) Qualifier

(C) Short is the Qualifier and int is the basic data type

(D) All of the above

Any input or output operation of program flowcharts are shown in symbol of .

- (A) Circle
- (B) Trapezoid
- (C) Rhombus
- (D) Parallelogram

10. Algorithm is made up of :

- (A) Sequence to print data
- (B) Selection
- (C) Repetition
- (D) All of above

11. Last step in process of problem solving is to :

- (A) Design a solution
- (B) Define a problem
- (C) Practicing the solution
- (D) Organizing the data

12. In a signed integer, the sign is represented by:

- (A) Least significant bit (LSB)
- (B) Most significant bit (MSB)
- (C) System dependent
- (D) The mean of the MSB and LSB

13. Which statement is correct about passing by value parameters ?

- (A) It cannot change the actual parameter value
- (B) It can change the actual parameter value
- (C) Parameters is always in read write mode
- (D) None of these

14. When a function is recursively called all the automatic variables are stored in

- (A) Stack
- (B) Queue
- (C) Array
- (D) Linked list

15. The Default parameter passing mechanism is :

- (A) Call by value
- (B) Call by reference
- (C) Call by value result
- (D) None of these

16. Comment on the following pointer declaration.

```
int * Ptr, P;
```

- (A) Ptr is a Pointer to integer, P is not
- (B) Ptr and P are both 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

17. Which data type is most suitable for storing a number 65000 in a 32 - bit system?

- (A) Signed short
- (B) Unsigned short
- (C) Long
- (D) Int

in:  
18. Choose correct output for the following sequence of operations ;

1. Push (5)
2. Push (8)
3. Pop
4. Push (2)
5. Push (5)
6. Pop
7. Pop
8. Pop
9. Push (1)
10. Pop

- (A) 8 5 2 5 1  
(B) 8 5 5 2 1  
(C) 8 2 5 5 1  
(D) 8 1 2 5 5

19. Which statement is correct with respect to stack ?

- (A) It is non-linear data structure  
(B) Stack is a LIFO data structure  
(C) It is linear data structure  
(D) None of the above

20. Which of the following principle does Queue use?

- (A) LIFO  
(B) FIFO  
(C) Both  
(D) None of the above

21. What are the three algorithm constructions ?
- (A) Input, output, Process
  - (B) Sequence, Selection, Repeat
  - (C) Input / output, Decision, Repeat
  - (D) Loop, Input / output, Process
22. What is the result of the expression  $(23*2) \% (\text{int}) 5.5$  ?
- (A) 2
  - (B) 1
  - (C) 3
  - (D) 0
23. The C Program is highly case sensitive :
- (A) False
  - (B) True
  - (C) Both (A) and (B)
  - (D) None of the above
24. How many basic data types that support C language :
- (A) 8
  - (B) 2
  - (C) 10
  - (D) 4
25. By which symbol, the C - Preprocessors are specified :
- (A) #
  - (B) \$
  - (C) .. ..
  - (D) &

26. Where in C language the order of precedence of operators do not exist ?
- (A) Within conditional statements, if, else
  - (B) Within while, do-while
  - (C) Within a macro definition
  - (D) None of the above
27. What is the return type of Malloc ( ) or Calloc ( ) ?
- (A) Int \*
  - (B) Int \*\*
  - (C) Void \*
  - (D) Void \*\*
28. Which of the following is not the application of the stack data structure :
- (A) String reversal
  - (B) Recursion
  - (C) Back tracking
  - (D) A synchronous data transfer
29. How can we describe an array in the best possible way ?
- (A) The array shows a hierarchical structure
  - (B) Arrays are immutable
  - (C) Container that stores the elements of similar types
  - (D) The array is not a data structure
30. Choose a C formatted input output function below.
- (A) Printf ( ), scanf ( )
  - (B) Sprintf ( ), sscanf ( )
  - (C) Fprintf ( ), fscanf ( )
  - (D) All of the above

31. What is the size of a C structure ?
- (A) C structure is always 128 bytes
  - (B) Size of C structure is the total bytes of all elements of structure
  - (C) Size of C structure is the size of largest element
  - (D) None of the above
32. Find a correct C keyword below:
- (A) Work
  - (B) Case
  - (C) Constant
  - (D) Permanent
33. What are the types of arrays ?
- (A) Int, long, float, double
  - (B) Struct enum
  - (C) Char
  - (D) All of the above
34. It is necessary to declare the type of a functions is the calling program if the function :
- (A) Is not defined in the same file
  - (B) Returns a non-integer value
  - (C) Both (A) and (B)
  - (D) None of the above
35. Arguments passed to a function in C language are called :
- (A) Formal arguments
  - (B) Actual arguments
  - (C) Definite arguments
  - (D) Ideal arguments

36. What is the limit for number of functions in a C program ?
- (A) 16
  - (B) 31
  - (C) 32
  - (D) No Limit
37. The keyword used to transfer control from a function back to the calling function is :
- (A) Switch
  - (B) Go to
  - (C) Go back
  - (D) Return
38. Choose a C conditional operator from the list :
- (A) ?:
  - (B) :?
  - (C) :<
  - (D) <:
39. If switch case is used, Then :
- (A) Default case must be present
  - (B) Default case, if used, should not be the last case
  - (C) Default case, if used, should be the last case
  - (D) None of these
40. Continue statement :
- (A) Breaks loop and goes to next statement after loop
  - (B) Does not break loop but starts new iteration
  - (C) Exits the program
  - (D) Start from beginning of program

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