



COA 104

B.A./B.Sc. IInd SEMESTER EXAMINATION, 2023-24

COMPUTER APPLICATION

(Problem Solving Using Computer)

Credit (4+0)

(CBCS Mode)

AFFIX PRESCRIBED
RUBBER STAMP

Paper ID

(To be filled in the
OMR Sheet)

Date (तिथि) : _____

5613

अनुक्रमांक (अंकों में) :

Roll No. (In Figures) :

अनुक्रमांक (शब्दों में) :

Roll No. (In Words) :

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. Any Input or output operation of program flowcharts are shown in symbol of:
 - (A) Circle
 - (B) Trapezoid
 - (C) Rhombus
 - (D) Parallelogram

2. Second step in problem solving process is to :
 - (A) Practicing the solution
 - (B) Organizing the data
 - (C) Design a solution
 - (D) Define a problem

3. Thing to keep in mind while solving a problem is :
 - (A) Input data
 - (B) Output data
 - (C) Stored data
 - (D) All of above

4. All devices and programs work together to perform any particular task are best said to be :
 - (A) Information system
 - (B) Information processing system
 - (C) Operating system
 - (D) Component classification system

5. Series of steps that are followed to solve a problem is called as :
 - (A) Flowchart
 - (B) Structure diagram
 - (C) Algorithm
 - (D) Solving method

6. What is # include <stdio.h>
- (A) Preprocessor directive
 - (B) Inclusion directive
 - (C) File Inclusion directive
 - (D) None of these
7. To write a program function i.e. program for the sum of four integers, The program refinement first level includes -
- (A) Input four numbers
 - (B) Calculate sum
 - (C) Print the values
 - (D) Display the values
8. Symbol used in flowchart such as rectangle with the horizontal lines on two sides is used for :
- (A) Defined statement
 - (B) Predefined process
 - (C) Error fix
 - (D) Variables defined
9. In a flowchart, circle with a vertical line drawn is a symbol used to show :
- (A) Systematic operation
 - (B) Manual operation
 - (C) Magnetic tape
 - (D) Display screen
10. Task of defining the problem is a part of :
- (A) System analysis phase
 - (B) System design phase
 - (C) System implementation phase
 - (D) Relevance phase

11. Which of the following cannot be a variable name in C ?

- (A) Volatile
- (B) True
- (C) Friend
- (D) Export

12. What is an example of iteration in C ?

- (A) For
- (B) While
- (C) Do- while
- (D) All of the above

13. What will be the output of the following code snippet ?

```
# include <stdio.h>

int main ( )
{
int a = 3, b = 5;
int t = a;
a = b;
b = t;
print t (11% d% d return o; a,b) ;
return 0;
}
```

- (A) 3 5
- (B) 3 3
- (C) 5 5
- (D) 5 3

14. How is an array initialized in C language ?
- (A) `int a [3] = {1,2,3};`
 - (B) `int a = {1,2,3};`
 - (C) `int a [] = new int [3];`
 - (D) `int a (3) = [1,2,3];`
15. What is the output of the following code snipped ?
- ```
int main () {
int sum = 2+4/2+6*2 ;
print t ("%d",sum) ;
return 0;
}
```
- (A) 2
  - (B) 15
  - (C) 16
  - (D) 18
16. Which of the following is an exit controlled loop ?
- (A) While loop
  - (B) For loop
  - (C) Do-while loop
  - (D) None of the above
17. If x is an integer pointer with a value 1000, then what will the value of x+5 be ?
- (A) 1004
  - (B) 1005
  - (C) 1010
  - (D) 1020

18. Which of the following are not standard header files in C ?
- (A) Stdio. h
  - (B) Stdlib. h
  - (C) Conio. h
  - (D) None of the above
19. How to find the length of an array in C ?
- (A) Sizeof (a)
  - (B) Sizeof (a[0])
  - (C) Sizeof (a)/sizeof (a[0])
  - (D) Sizeof (a)\* sizeof (a[0])
20. The size of a union is determined by the size of the
- (A) First member in the union
  - (B) Last member in the union
  - (C) Biggest member in the union
  - (D) Sum of the sizes of all members
21. The default parameter- passing mechanism in C- Programming language is:
- (A) Call by reference
  - (B) Call as random
  - (C) Call by value
  - (D) Call by value result
22. What is the result of the expression abs (-7.5) in C ?
- (A) -7.5
  - (B) 7.5
  - (C) 7
  - (D) Error

23. Which of the following share a similarity in syntax ?  
1. Union 2. Structure 3. Arrays 4. Pointers
- (A) 3 and 4
  - (B) 1 and 2
  - (C) 2 and 3
  - (D) All of the above
24. Which of the following cannot be a structure member ?
- (A) Function
  - (B) Array
  - (C) Structure
  - (D) None of the above
25. Which of the following are Themselves a collection of different data types ?
- (A) String
  - (B) Structure
  - (C) Char
  - (D) All of the mentioned
26. What will happen when the structure is declared ?
- (A) It will not allocate any member
  - (B) It will allocate the memory
  - (C) It will be declared and initialized
  - (D) None of the mentioned
27. The declaration of structure is also called as ?
- (A) Structure creator
  - (B) Structure signifier
  - (C) Structure specifier
  - (D) None of the mentioned

28. Which of the following accesses a variable in structure b ?
- (A) b->var
  - (B) b. var
  - (C) b-var
  - (D) b>var
29. Union differs from structure in the following way:
- (A) All members are used at a time
  - (B) Only one member can be used at a time
  - (C) Union cannot have more members
  - (D) Union initialized all members as structure
30. Which of the following operators can be applied on structure variables ?
- (A) ==
  - (B) =
  - (C) Both of the above
  - (D) None of the above
31. User-defined data type can be derived by
- (A) Street
  - (B) Enum
  - (C) Typedef
  - (D) All of the mentioned
32. Which are not looping structures ?
- (A) For loop
  - (B) While loop
  - (C) Do -- while loop
  - (D) If--- else

33. 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
34. The continue statement cannot be used with :
- (A) For
  - (B) While
  - (C) Do while
  - (D) Switch
35. How long the following loop runs ?
- For (x=1; x=3; x++)
- (A) 3 times
  - (B) 4 times
  - (C) Forever
  - (D) Never
36. What is the return type of malloc ( ) or calloc ( ) :
- (A) Void\*
  - (B) Pointer of allocated memory type
  - (C) Void\*\*
  - (D) Int\*
37. We use malloc and calloc for :
- (A) Dynamic memory allocation
  - (B) Static memory allocation
  - (C) Both (A) and (B)
  - (D) None of the above

38. Get c ( ) returns EOF when :
- (A) When get c ( ) fail to read the character
  - (B) When end of file is reached
  - (C) Both (A) and (B)
  - (D) None of the above
39. What is the extension of a C language source file ?
- (A) .c
  - (B) .h
  - (C) .db
  - (D) .99
40. The C source file is processed by the \_\_\_\_.
- (A) OS
  - (B) Compiler
  - (C) Both (A) and (B)
  - (D) None
41. Which is not a valid keyword in C language ?
- (A) For
  - (B) While
  - (C) Pot
  - (D) Switch
42. Which of the following is not a logical operator ?
- (A) &&
  - (B) !
  - (C) ||
  - (D) →

43. Which of the following is a loop construct that will always be executed once ?
- (A) For
  - (B) While
  - (C) Switch
  - (D) Do while
44. Why is a macro used in place of a function ?
- (A) It is easy
  - (B) It reduces code size
  - (C) It increases execution time
  - (D) It increases code size
45. Which of the following is a storage specifier ?
- (A) Enum
  - (B) Union
  - (C) Auto
  - (D) Volatile
46. What will strcmp ( ) function do ?
- (A) Compares the first n characters of all the object
  - (B) Compares the string
  - (C) Undefined function
  - (D) Copies the string
47. Which function will you choose to join two words ?
- (A) Strcpy ( )
  - (B) Strcat ( )
  - (C) Strncat ( )
  - (D) Memcat ( )

48. `scanf ()` is a predefined function in \_\_\_ header file .
- (A) `Stdlib . h`
  - (B) `Ctype . h`
  - (C) `Stdio . h`
  - (D) `Stdarg . h`
49. The C- preprocessors are specified with \_\_\_ symbol .
- (A) `#`
  - (B) `$`
  - (C) `" "`
  - (D) `&`
50. All the library functions in C takes as a parameter and return as the output .
- (A) `Double, int`
  - (B) `Double, double`
  - (C) `Int, double`
  - (D) `Int, int`

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