AC-235482

M.Sc. (Semester-I)
Examination, Dec.-Jan. (2025-26)

COMPUTER SCIENCE

(Programming in C : Core and Advanced)

Time Allowed : Three Hours

Maximum Marks : 70

Note : Attempt questions from all four sections as directed. Distribution of marks is provided with each section.

SECTION-A

(Objective Type Questions)

Note : Attempt **any ten** questions. Each question carries **1** mark.

$$[10 \times 1 = 10]$$

1. (A) **Fill in the blanks :**

    (i) .... is the result of logical or relational expression in C. [0/1]

AC-235482/170 (1) [P.T.O.]

(ii) Function can return enumeration constants in ... ⬤ ⬤
[True/depends on the compiler]

(iii) The C – Preprocessors are specified with symbol
.... [# / $]

(iv) In C language FILE is of .... data type.

[Char* /Struct]

(v) Scanf() is a predefined function in .... eader
file.   [stdio.h/conio.h]

(B) **Multiple Choice Questions :**

(vi) A function that is called automatically each time
an object is created is a(n) :

(a)   Constructor

(b)   Contractor

(c)   Destructor

(d)   Builder

(vii). Which refers to the Process of locating and
removing the error in a program?

(a)   Executing

(b)   Analyzing

(c)   Correcting

(d)   Debugging

(viii) User-defined functions can be :

(a)   Value returning function only

(b)   Void functions only

(c)   Either value-returning or void functions

(d)   None of these

(ix) Which of the following numerical values are
invalid constants?

(a)   0.7

(b)   9.3e12

(c)   27,512

(d)   1234567

(x) The null character needs a space of :

(a)   Zero bytes

(b)   One byte

(c)   Three bytes

(d)   Four bytes

(xi) The comma operator (,) is primarily used in
conjugation with ....

(a)   'for' Statement

(b)   'do-while' statement

(c) 'if – else' statement

(d) None of the above

(xii) The continue statement should be written only :

(a) In the body of loop

(b) In the nested loops

(c) Outside the body of a loop

(d) Anywhere

SECTION-B

(Very Short Answer Type Questions)

Note : Attempt **any five** questions. Answer each question in 25-30 words. Each question carries **2** marks. [5×2=10]

1. What do you mean by Enum? Explain.

2. Explain Type casting.

3. What is Recursive function?

4. Explain constant with example.

5. What is the use of Array?

6. Explain multidimensional Array with example.

7. Explain fopen() file accessing function.

SECTION-C

(Short Answer Type Questions)

Note : Attempt **any five** questions. Each question carries **4** marks. Word limit : **250** words. [5×4=20]

1. Write a program to print Fibonacci Series. (1to 25).

2. What is structure? Describe with examples.

3. Explain math and character function.

4. Explain call by reference with an example.

5. Explain with example nested loop.

6. Explain with example to break and continue statement.

7. Explain various operators.

SECTION-D

(Long Answer Type Questions)

Note: Attempt **any three** questions. Each question carries **10** marks. Word limit:**500** words. [3×10=30]

1. What is control structure? Explain various Branching Statements with example.

2. Explain file handling and various file handling statements with examples.

3. Explain various dynamic memory allocation functions with one example.

4. Explain various data types with size and write a program to show recursive function.

———X———