1(Sem-8/FYUGP)BNC(A)/DSCI

2024

INFORMATION TECHNOLOGY

(Discipline Specific Core)

Paper Name: Introduction to Computer Programming

Paper Code: BIT-DSC-143

Full Marks: 45

Time: Two Hours

(The figures in the margin indicate full marks for the questions)

Answer in English

Answer the following multiple-choice questions 1.

1x4 = 4

- (a) Pseudocode is used for,
 - Denoting the program flow i.
 - To write the program steps ii.
 - iii. Program code
 - For coding the program iv.
- (b) A function which calls itself is called
 - Auto Function
 - Static Function ii
 - iii. Self-Function
 - iv. Recursive Function
- (c) Global variables are
 - i. Internal
 - ii. External
 - iii. Both internal and external
 - iv. None of the above

- (d) How is an array with 5 integers declared in C
 - i. int a(5);
 - ii. int a[5]
 - iii. int[5] a;
 - iv. None of the above

2. Answer the following questions briefly

2x3 = 6

- (a) What is a function?
- (b) What are the primary data types in C?
- (c) What do you mean by compiler and assembler?

3. Answer the following questions (Any three)

5x3=15

- (a) What is an Algorithm and a Flow Chart?
- (b) Define storage classes in C programming.
- (c) What do you mean by array? What are the types of it? Give example.
- (d) Draw the flowchart for finding the average or n natural numbers.

4. Answer the following questions (Any two)

10x2=20

- (a) Write a C programming to find factorial of a positive integer.
- (b) What do you mean by structure? What are the uses if it? Give the declaration statement of structure.
- (c) Describe briefly different conditional statements.
- (d) Explain different types of operators use in C language with examples.
