This question paper contains 3 printed pages]

# ND-11-2023

### FACULTY OF SCIENCE AND TECHNOLOGY

### **B.Sc. CS (Second Semester) EXAMINATION**

### **NOVEMBER/DECEMBER, 2023**

(CBCS/Revised Pattern)

### COMPUTER SCIENCE

(Intro. to Programming Language Using C) (Part-2)

## (Saturday, 2-12-2023)

Time: 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—75

- N.B. := (i) All questions are compulsory.
  - (ii) Figures to the right indicate full marks.
  - (iii) Assume suitable data, if required.
  - (iv) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.
- 1. Attempt any five of the following (3 marks each):

15

- (a) Explain types of functions.
- (b) Explain operations on file.
- (c) Explain concept of union.

P.T.O.

WT		(2)	ND—11–	-2023
	(d)	Explain calloc() memory allocation function.		
	(e)	Explain difference between structure and union.		
	( <b>f</b> )	Explain dereferencing pointers.		
	(g)	Explain strlen() string library functions.		
2.	Atten	npt any three of the following (5 marks each):		15
	(a)	What is function ? Explain in detail.		
	(b)	Explain command line arguments.		
	(c)	Explain Dynamic memory allocation.		
	(d)	Write a program to find max of two numbers using for	ınction.	
	(e)	Explain storage classes in detail.		
3.	Atten	npt any three of the following (5 marks each):		15
	(a)	What is pointer? Explain Pointer declaration.		
	( <i>b</i> )	Explain recursion with suitable example.		
	(c)	What is structure ? Explain nested structure.		
	(d)	Write a program pointer-to-pointer.		
	(e)	Explain the concept of array of structure.		

WT Attempt any three of the following (5 marks each) 4. Explain Pointer declaration. (*a*) What is file? Explain how to create FILE. (b) Explain pointer to structure in detail. (c) What is function? Explain in detail. (*d*) Write a program to find factorial of given number using recursion. (e) Write short notes on any three of the following (5 marks each): 5. strcmp() & strcat() (a) pointer-to-pointer (b) Random access file (c)

(d) malloc()

(e) Types of file.