Faculty of Engineering & Technology Third Semester B.E. (IT) (CBS) Examination PROGRAMMING LOGIC AND DESIGN USING 'C' Paper—2

Time—Three Hours]

[Maximum Marks 80

INSTRUCTIONS TO CANDIDATES

- All questions carry marks as indicated.
- (2) Answer SIX questions.
- (a) List different operators used in 'C' Language. Explain each with example.
 - (b) Explain the following statement with proper syntax and example:
 - (i) FOR
 - (ii) WHILE
 - (iii) DO-WHILE
 - (iv) WITCH

8

OR

2. (a)	Write a 'C' program to find the factoria number?	. *
(b)	Explain different data types and 'C' tokens of C language.	
J6Y	What is flowchart? Explain different sy involved in it?	mbols 4
3. (a)	Write a program to generate the Fibonacci 0, 1, 1, 2, 3, 5, 8	
(b)	With the help of example explain the conc pointers in 'C'. Also write advantages of pointers.	ept of using 7
	OR	
4. (3)	What is need of array? How do elements get in one dimensional array and two dimensional of integers? Draw the memory map for eathern.	ich of
(b)	What is storage class? Explain different st classes available in C?	отад е 6
5. (a)	and the string of the string related library fur	nction 7
	· · · · · · · · · · · · · · · · · · ·	Contd.

(p)	With the help of example explain the concept	
	Union in 'C'.	6

OR

6.	(a) Declare a structure for an employee and write a
~	program which arranges the list of country
	alphabetical order of their names.

(b) Differentiate between Structure and Union.	4
(C) What am ab.	

- What are the advantages of Union 7. (a) Write a program to merge two files into third file.
 - Assume suitable name for merging.
 - Explain the following file handling function: Æ

fwrite()

- 8. (a) Write a short note on:
 - (i) Dynamic memory allocation
 - (ii) Static memory allocation.
 - (b) What are the bitwise operators available in 'C'? Write a 'C' program which uses each of them.
- 9. (a) Write a program using graphics. The program should be a Menu Driven program and have the following options.
 - (i) Draw Line
 - (ii) Draw Circle
 - (iii) Draw Arc
 - (iv) Draw Rectangle.

Explain the following functions and also write syntax for each function:

- initgraph()
- (ii) closegraph()

7

	المائد	(ili) are()	
	4	_(iv) ellipse()	6
		OR	
10.	(a)	Explain malloc(), calloc(), realloc()	7
	(b)	Write a program to generate alines with diffe colors and styles.	erent 6
11.	(a)_	Write a short note on TSR 7541	7

(b) Explain different types of pointers.

•	OR	•
12 (a)	Write short notes on ROM BIOS	. 7
(b)	What are advantages of using pointer?	3
(c)	Explain Dangling Pointer.	3