

[B19 CS 1101]

**I B. Tech I Semester (R19) Regular Examinations
 COMPUTER FUNDAMENTALS & PROBLEM SOLVING USING C
 (Common to CSE & IT)
 MODEL QUESTION PAPER**

TIME: 3 Hrs.

Max. Marks: 75 M

Answer **ONE Question** from **EACH UNIT**

All questions carry equal marks

| | | | CO | KL | M |
|-----|-----|---|----|----|---|
| | | UNIT - I | | | |
| 1. | a). | Explain abt Flow chart Symbols. | C1 | K2 | 8 |
| | b). | Construct flowchart for biggest of 3 numbers. | C1 | K2 | 7 |
| | | OR | | | |
| 2. | a). | Explain abt scratch Environment. | C1 | K2 | 8 |
| | b). | Construct flowchart for Linear search. | C1 | K2 | 7 |
| | | UNIT - II | | | |
| 3. | a). | Explain different c operators. | C2 | K2 | 8 |
| | b). | Compare while loop and Do-while loop. | C2 | K2 | 7 |
| | | OR | | | |
| 4. | a). | Explain abt structure of a C program | C2 | K2 | 8 |
| | b). | What is type conversion? Explain type conversions in C. | C2 | K2 | 7 |
| | | UNIT - III | | | |
| 5. | a). | What is modular programming? | C3 | K1 | 8 |
| | b). | Write a c program for towers of Hanoi using recursive function. | C3 | K3 | 7 |
| | | OR | | | |
| 6. | a). | What is the difference between actual and formal parameters? | C3 | K1 | 8 |
| | b). | Write a c program for Fibonacci series using recursive function. | C3 | K3 | 7 |
| | | UNIT - IV | | | |
| 7. | a). | What is a pointer? How pointer variables are initialized. | C4 | K1 | 8 |
| | b). | Write a program to print command line arguments on the screen. | C4 | K3 | 7 |
| | | OR | | | |
| 8. | a). | Explain the difference between structure and union and write a program to find sum of marks in 3 subjects for a student using structures. | C4 | K2 | 8 |
| | b). | What is a self-referential structure? | C4 | K1 | 7 |
| | | UNIT - V | | | |
| 9. | a). | Write the syntax for opening a file with varis modes and closing a file. | C5 | K2 | 8 |
| | b). | Write a c program for Caps Lock on/off. | C5 | K3 | 7 |
| | | OR | | | |
| 10. | a). | Explain abt the input and tput operations of a file. | C5 | K2 | 8 |
| | b). | Write a c program to open a file and to print its contents on screen. | C5 | K3 | 7 |