END TERM EXAMINATION

FIRST SEMESTER [B.TECH] FEBRUARY-MARCH 2023

Paper Code: ICT-101 Subject: Programming for December 1981

Time: 3 Hours

Subject: Programming for Problem Solving

Maximum Marks: 75

Note: Attempt five questions in all including Q.No.1 which is compulsory. Attempt all questions Q1(5x3=15)What is the difference between compilation and interpretation? a) Explain the process of execution of a programme. b) What is data type? Explain different data types used in C. c) What is loop control statement? Explain with example. d) What is the difference between structure and union? e) What is stack? Explain with example. What are modify operators? Explain it's use with example. (7.5)Q2 a) Explain the concept of Switch case statement with proper example. b) (7.5)What is multi dimensional arrays. Write a program to multiply two Q3 (15)matrices by accepting two matrices as a input from the user. What is pointer? Explain pointer arithmetic concept with example. Q4 a) Write a program to explain the concept of call by value and call by b) (7.5)reference. Define structure? Explain the concept of passing structure through Q5 a) (7.5)functions with example. What is file handling in C? How many ways or modes a file can be b) opened. Explain with example. (7.5)What is self referential structure? Explain with example. (7.5)Qб a) What is dynamic memory allocation? Explain. (7.5)b) Write a program for selection sort and explain the logic (7.5)Q7 a) Explain the logic of binary searching algorithm. (7.5)b) What is storage classes available in C. Explain the concept (7.5)Q8 a) Explain the concept of single linked list with example. (7.5)b)

