

Code: 20220

B.Sc. (I.T.) Semester -2
Advanced C Programming

Time: 2:30 Hours

OCT - 2017

Total Marks: 70

- Q.1 (a) Write a note on dynamic memory allocation. [7]
(b) List out Bit-wise operators. Write down applications of Bit-wise operators. [7]

OR

- Q.1 (a) Explain functions: fseek(), fprintf(), fputs() [7]
(b) Write a note on array within structure and array of structure. [7]
Q.2 (a) Write a programme to create a singly circular link list. [7]
(b) Write code to open a file, performing read and write operations and close a file. [7]

OR

- Q.2 (a) Explain in detail: Passing pointer as argument and Returning pointer [7]
(b) Create a structure stud with following data members and find obtained marks and percentage: [7]

Roll_No, Name, Subject1, Subject2, Subject3

- Q.3 (a) Explain pre-processor directives with suitable example. [7]
(b) List and explain various operations on singly link list. [7]

OR

- Q.3 (a) How to pass structure and union as function argument? Explain with suitable example. [7]
(b) List and explain different modes to open a text file with example. [7]
Q.4 (a) Compare and explain: Link List and Array [7]
(b) What is file pointer? How to define file pointer? Explain with detailed example. [7]

OR

- Q.4 (a) Explain functions: ftell(), fgetc(), fputc() [7]
(b) Write a note on structure within structure. [7]
Q.5 Write a programme to accept two singly linked lists and print a singly link list those elements which are common in both the list. [14]

OR

- Q.5 Write a programme to accept a singly linked list of integers and sort the list in ascending order. [14]
