

## Group B

Attempt any SIX questions.

11. What is software process model? Differentiate between cohesion and coupling in programming? [1+4]

13. Define keywords and identifiers. Define rules for defining valid identifiers. [2+3] List the operators used in C on the basis of utility. Explain the concept of bitwise operation. [2+3]

Full Marks: 60 Pass Marks: 24 Time: 3 hours

[6\*5=30]

14. Differentiate between while loop and do while loop. Write a C program to find input number is prime or composite [2+3]

15. What is DMA? Write a program to find the largest and smallest number in a list of n numbers using DMA.

[1+4]

What is the difference between binary file and text file? Write a C program to write some text

16. 'Welcome to BCA program' in a file test.txt. [2+3]

Explain any four graphics function in C. Write a program to draw two concentric circles with

17. center (50, 50) and radii 75 and 125. [2+3]

Attempt any TWO questions.

## Group C

18. What is one dimensional array? How it is initialized? Write a C program to find the sum of two matrix of order m x n. [1+1+8]

19. Define structure and union. Write a C program using structure that reads the record of 35 students with member's roll, name, address and marks and display the records of students who have obtained greater than 250 marks. [2+8]

20. What is a function? List its advantages. Explain the concept of function call by value and call by reference with example. [1+2+7]