

PART B — (5 × 16 = 80 marks)

11. (a) Explain the basic organization of a computer with neat diagram. (16)

Or

- (b) (i) Convert the decimal number 378 into binary, octal and hexadecimal equivalent. (6)
(ii) Write the pseudo code and draw a flowchart to find the given number is even or odd. (10)

12. (a) Explain the various types of operators available in C with suitable examples. (16)

Or

- (b) (i) Describe the various looping statements used in C with suitable examples. (12)
(ii) Write a short note on constants. (4)

13. (a) (i) Write a C program to find the largest number among n numbers. (8)
(ii) Discuss the various string handling functions in C. (8)

Or

- (b) Write a C program to multiply two matrices. (16)

14. (a) (i) Write a C program to generate the fibonacci series using function. (8)

- (ii) Write a C program to exchange the values of two variables using pass by reference. (8)

Or

- (b) (i) Write a C program to find the Greatest Common Divisor (GCD) using recursive function. (8)

- (ii) Write a C program to count the number of words in a string using pointers. (8)

15. (a) Define a structure called bank with account number, name of the customer, account balance. Write a C program to read the details of account number, name of the customer, account balance of 500 customers and print the account number, name of the customer and the account balance whose account balance is below Rs.1000. (16)

Or

- (b) Explain the preprocessor directives with suitable examples. (16)