

(REVISED COURSE)

(3 Hours)

[Total Marks : 80]

N. B. : (1) Question No. 1 is compulsory.
 (2) Solve any three out of five questions.

- Explain following bitwise operator with example :- 4
 (i) Bitwise Right shift operator
 (ii) Bitwise X-OR operator
 - Find output of the following statenal 4
 int x=20, y, *ip;
 ip= & x;
 y=(*ip)++;
 printf("%d \n", y);
 printf("%d \n", *ip);
 - Explain nested structure with example. 4
 - Explain need of flowchart and draw a flowchart to check enter no is prime or not. 4
 - Explain following statement with example. 4
 (i) goto (ii) continue
- Explain syntax of switch case? Discuss what is need of break statement in switch case? Write a program to count vowel using switch case. 10
 - Write a program to display following pattern 10

(i) A B C D
 A B C
 A B
 A

(ii) 1 2 3 4
 1 2 A
 1 2 3 A B
 1 2 3 4 A B C
- (i) Explain difference between while and do-while loop. 10
 (ii) Write a program to find out binary equivalent of given decimal no. 10
 - Define a function to check wheather enter square matrix is symetric or not. Pass square matrix as a argument from main program to function. 10

[TURN OVER]

4. (a) Write a program to evaluate the value of the standard deviation and display the result. 10

$$sd = \sqrt{\sum_{i=1}^n (xi - \bar{x})^2 / n}$$

\bar{x} = Average of all no is array.

(b) (i) Explain string function for following operation with example. 5
(1) Copy n char from source string to destination.
(2) Joining of two string.

(ii) Write a program to find reverse of given string without using string library function. 5

5. (a) Define a structure cricket which consist following members 10
(i) player name
(ii) country name
(iii) batting average

Input 20 player information of test playing country. Write a program which will display detail information of player with given player name.

(b) What do you mean by recursion? Write a program to find out summation of n no using recursion. 10

6. (a) (i) Explain call by value and call by reference with necessary example. 8
(ii) Explain following storage class with example. 4
(1) static (2) external

(b) Write a algorithm and program to generate a factor of given no. 8