(REVISED COURSE)

(3 Hours) | Total Marks : 80

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

1. (a) Explain following bitwise operator with example :–   4
   - (i) Bitwise Right shift operator
   - (ii) Bitwise X-OR operator
   (b) Find output of the following statenal   4

   ```
   int x=20, y, *ip;
   ip= & x;
   y=(*ip)++;
   printf("%d \n", y);
   printf("%d \n", *ip);

   y=++0 (*ip);
   printf("%d \n", y);
   printf("%d \n", ip);
   ```

   (c) Explain nested structure with example.   4
   (d) Explain need of flowchart and draw a flowchart to check enter no is prime or not.   4
   (e) Explain following statement with example.   4
   - (i) goto   (ii) continue

2. (a) Explain syntax of switch case? Discuss what is need of break statement in switch case? Write a program to court vowel using switch case.   10
   (b) Write a program to display following pattern   10

   ```
   (i) A B C D        (ii)          1
       A B C                     1 2 A
       A B                     1 2 3 A B
       A                     1 2 3 4 A B C
   ```

3. (a) (i) Explain difference between while and do-while loop.   10
       (ii) Write a program to find out binary equivalent of given decimal no.
   (b) 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

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

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

$\overline{x}$ = 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. Wrtie a program which will display detail information of player with given player name.

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

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Course: F.E. (REV.)(ALL BRANCHES) (CBSGS) (SEM-II) (prog 646)

Q.P Code: 1060

Correction:

Q.no.(1)(b)

Read AS: y= ++(*ip)

Instead of: y=++0(*ip)

Q.no.(5)(b)

Read AS: recursion

Instead of: recusion, recussion

Q.no.(6)(a)(ii)(2)

Read AS: extern

Instead of: external

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