# 22218

**11819**

**3 Hours / 70 Marks**          Seat No. ☐☐☐☐☐☐☐☐

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Marks

1. Solve **any five** :                                               **(5×2=10)**

   A) List 4 datatypes used in C.                                        **2**

   B) State use of ∗ and & used in pointers.                             **2**

   C) Give syntax of switch case statement.                             **2**

   D) State any four control statements.                                **2**

   E) Define Array.                                                     **2**

   F) List 2 mathematical functions used in C programming.              **2**

   G) Define structure.                                                 **2**

2. Solve **any three** :                                              **(3×4=12)**

   A) Distinguish between compiler and interpreter.                      **4**

   B) Explain while loop with syntax and example.                        **4**

   C) Explain the use of the following function with syntax :

      i) Strcmp()

      ii) Strlen()                                                       **4**

   D) Write a program to calculate $n^{th}$ power of a number using function.   **4**

3. Solve **any three** :                                              **(3×4=12)**

   A) Write a program to accept ten numbers in array and arrange them in ascending order.   **4**

   B) Explain use of arrow (→) operator with example.                   **4**

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**Marks**

    C) Write an algorithm and flowchart to swap the contents of two variables. **4**

    D) Write a program to find whether the character entered through keyboard is a vowel or not. **4**

4. Solve **any three** : **(3×4=12)**

    A) Explain how to initialize two dimensional array with example. **4**

    B) Explain recursive function with suitable example. **4**

    C) State and explain four arithmetic operations perform on pointer. **4**

    D) Explain conditional operator with example. **4**

5. Solve **any two** : **(2×6=12)**

    A) Write a program to add two $3 \times 3$ matrices. **6**

    B) Write a program to add two numbers using function. **6**

    C) Write a program to exchange values of two variables using pointers. **6**

6. Solve **any two** : **(2×6=12)**

    A) Write a program to declare a structure student having data members roll_no, name and agg_marks. Accept data and display this information for one student. **6**

    B) Write a program to print table of a given number. **6**

    C) Write a program to concatenate two strings. **6**

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