

Note: All Questions are Compulsory.

Q.1: Attempt Any Four From the Following:

(20 M)

1. What are steps to develop an Algorithm?
2. What is mean by worst case, average case and best case running time of an Algorithm?
3. What are different approaches to programming language?
4. What are the conventions used in Pseudo code?
5. Write an Algorithm to generate prime number.
6. What are the advantages of using symbolic constant instead of literal constant?
7. Explain the features of C Language
8. Explain Big oh and Big omega notation with suitable example.

Q.2: Attempt Any Four From the Following:

(20 M)

1. What are the rules of implicit type conversion?
2. Explain different formatted input function?
3. Write a note on escape sequence?.
4. What is stream? What are two modes of stream?
5. Write a short note on merge sorting.
6. Write C program to determine whether number is in range or not.
- 7 Explain following functions with proper example: 1.putc() 2.puts() 3.getchar()
8. Write a note on decision making statements.

Q.3: Attempt Any Four From the Following:

(20 M)

1. What is mean by an array? How we can name and declare it.
2. Write C programs to reverse the string.
3. Write a note on character array.
4. Write C program to accept rows and column of matrix from user and perform multiplication of three matrices.
5. What are the automatic variable and static variable.
6. Differentiate between selection and insertion sorting.
7. Give the difference between structure and union.
8. Define array of the structures.

Q.4: Attempt Any Three From the Following:

(15 M)

1. What is mean by variables and constants explain with examples.
2. Write an Algorithm for sum of setup numbers.
3. What is explicate type conversion explain with example.
4. How we can use switch statement explain it with example.
5. Write C programs to copy one string to another string
6. What are register variable?
