

**Model Paper I**

**BCA First Year**

**Subject: Principle of Programming Language (BCA- 104)**

**Time: 3 hrs**

**M.M:100**

**I) Very Short Answer Questions (each carry 2 marks)**

2\*10=20

- Q1. Define flowchart and various symbols which are used in flowchart?
- Q2. Explain various data types which are supported by 'C'?
- Q3. Explain conditional operator with example?
- Q4. Explain various programming rules?
- Q5. Differentiate while loop and for loop?
- Q6. Write down various properties of external storage class?
- Q7. Write down various advantages of 'C'?
- Q8. Explain nested loops?
- Q9. Define character array with example?
- Q10. Define pointer array?

**II) Short Answer Questions (each carry 4 marks)**

4\*5=20

- Q1. Explain language evaluation criteria?
- Q2. Draw a flowchart to find out largest of three numbers?
- Q3. Define Constant Pointer to a Constant with suitable example?
- Q4. Differentiate structure and union with suitable example?
- Q5. What do you mean by recursion? Write a program to calculate factorial of a given number?

**III) Long Answer Questions (any five each carry 12 marks)**

5\*12=60

- Q1. Explain programming domain briefly?
- Q2. Explain various string standard functions with suitable example?
- Q3. Compare various file handling techniques?
- Q4. Explain various types of operators supported by 'C'?
- Q5. Explain various operations which are performed with array? Explain with example?
- Q6. Define the following terms:

(a) Decision making statement

(b) Parameters

(C) One dimensional array

(d) String

(e) Continue statement

(f) Pseudo code