

Roll No.

Exam Code : J-19

Subject Code—0402

M.C.A. (First Year) EXAMINATION

(Batch 2009 Onwards)

(5 Years Integrated Course)

COMPUTER PROGRAMMING & PROBLEM
SOLVING USING C

MCA-102

Time : 3 Hours

Maximum Marks : 70

Section A

Note : Attempt any *Seven* questions. **7×5=35**

- 1.** What is Flow-chart ? Explain different symbols used in flow chart. Draw flow chart to find largest of 3 numbers.
- 2.** Justify the need for computer language. Also write the character set of C language.

(2-72-16-0119) **J-0402**

P.T.O.

3. What are identifiers and keywords ? Write rules for naming identifiers.
4. Explain different operators available in C language with their order of precedence.
5. Explain the different data types available in C language and also explain their declaration with example.
6. Explain input-output functions of C language with example.
7. What are pre-processor commands ? Explain any *two* commands.
8. Explain the difference between while and do-while.
9. Explain the use of break and continue statements with example.
10. What is function ? Why is it used ?

Section B

Note : Attempt all the questions.

11. Explain various looping control statements with example. 12

Or

What are recursive functions ? Write and explain a recursive function to find factorial of a number.

12. What is string ? How is it used in C program ? Explain various string operations/functions with example. 12

Or

Explain Pointer. How arrays can be passed (as function arguments) using pointer. Explain with example.

13. Compare and contrast structure and union. Create a structure student (roll no., name, marks) and write a program to print Roll No. and name of students having more than 75% marks. 11

Or

What are datafiles ? Explain various functions for manipulation of data files.