Roll No. .....

67007

MCA 1st Sem. (Current) CBSC Scheme wef Dec-2016

Examination – November, 2017

COMPUTER FUNDAMENTAL & PROG. IN C

Paper : MCA-102(C)

Time : Three Hours] *[Maximum Marks : 80*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt ***five*** questions in all. Question no. 1 is ***compulsory***. In addition to ***compulsory*** question, attempt ***four*** more questions selecting ***one*** question from each Unit.

1. ***Compulsory*** Question :

(i) What can be the remedial solution for computer crime ?

(ii) What is cache memory ? How is it different from primary memory ?

(iii) How decision table are used in problem solving ?

(iv) "C is format-free language". Justify the statement.

(v) How function specifies the concept of modularization in C ?

(vi) What is the role of indirection operator in pointer ? Differentiate *p++ and p++.

(vii) Differentiate structure and array.

(viii) What are command line arguments ?

UNIT – I

2. (a) What are the components that make up a computer system ? Discuss with the help of diagram.

(b) What is computer virus ? What are various types of threat that can be faced by computer system ?

3. (a) What is an operating system ? Why it is known as resource manager ?

(b) Explain the concept of programming language with its classification.

UNIT – II

4. (a) What is problem solving ? Write down different stages of problem solving.

(b) Explain the syntax of switch construct with its rules. Illustrate with an example.

5. (a) What are the common approaches used for problem solving and program design ? Explain with example.

(b) How C is structured programming language ? Discuss the characteristics of structured program.

UNIT – III

6. (a) Discuss the rules that apply to a function call in C. What relationship must be maintained between actual and formal arguments ? Explain with example.

(b) What is an array ? How array is initialized in C ? Write a program to find the second largest value in array of 'n' element.

7. (a) What are various storage classes in C ? Discuss their uses and scope with example.

(b) How array can be accessed through pointers ? Discuss the concept of reading and writing values in an array using pointer.

UNIT – IV

8. (a) What is union ? For what kind of applications are unions useful ? Explain with an example.

(b) What is preprocessor ? Explain various preprocessor directives.

9. (a) What are different ways for categorization of files ? Discuss various file handling functions with example.

(b) What is debugging ? Explain different types of errors occurred at the compile time.
