

- (b) Describe advantages of storage classes and techniques of function calling with C code segments. 8,8

7. Explain the following with examples :

- (i) Pointer to structure and pointer to functions with C code segments
- (ii) Recursion and its advantages with C codes.
- (iii) Looping structures in C 6,4,6

**Unit-IV**

- 8. (a) What are Files ? How these are used and useful ? Discuss its types with C codes.
- (b) Explain array of structure with suitable examples and C codes. 10,6
- 9. Explain the following with examples :
  - (i) Modes of files with C codes
  - (ii) Nesting of structures and Passing structure to a function with C code 16

Roll No. : .....

Total No. of Questions : 9 ] [ Total No. of Pages : 4

**67001-N**

MCA (Bridge Course) 1st Semester (Regular)  
Examination, March-2022  
(MCA 2 Year Programme)  
(w.e.f. 2020-21)  
Paper-20BCCT1C1  
**COMPUTER FUNDAMENTALS AND  
PROGRAMMING IN 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, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. Answer the following questions briefly :
- (a) Explain compiler and write its two uses.

- (b) Discuss types of graphs in MS-Excel.
- (c) Describe two advantages of decision tables.
- (d) Write use of pointer operators with examples.
- (e) Explain nesting of loops with C code segment.
- (f) Write one advantage of union with C code segment.
- (g) Explain advantages of macros in MS-Word.
- (h) Discuss advantages of conditional operator with C code.

2×8=16

**Unit-I**

- 2. (a) What are input devices ? How these are useful and used ? Discuss one input device in detail with an example.
- (b) Discuss uses and advantages of interpreter, file manager, loaders and linkers with examples.

8,8

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**RR-590**

- 3. Explain the following briefly with suitable examples :
  - (i) Computer viruses and their solutions
  - (ii) Programming languages generations and their relative merits
  - (iii) Difference between Internet, Intranet and Extranet

5,5,6

**Unit-II**

- 4. (a) What are Control Statements ? How these are useful and used ? Explain with C codes examples.
- (b) Explain advantages of switch, break and continue statements with suitable C code segments.

10,6

- 5. Describe the following with examples :

- (a) Differentiate between decision tables and flow charts.
- (b) Use of bit-wise operators with C codes. 16

**Unit-III**

- 6. (a) What is Function ? How is it used and useful ? Explain how parameters are passed in functions with suitable C codes.

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**RR-590** P.T.O.