

**67001-N**

**MCA-1st Semester Bridge Course  
(MCA 2nd Year Programme) 4th Semester  
w.e.f. 2020-21, Examination, November-2023  
COMPUTER FUNDAMENTALS & PROGRAMMING IN C  
Paper -20BCC11C1**

*Time allowed : 3 hours]*

*[Maximum marks : 80*

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*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.*

**Compulsory Question**

1.     (a) .. How application software is different from system software?
- (b)   How virus affects the functionality of computer?
- (c)   What is the difference between AutoText and AutoCorrent features of MS-word?
- (d)   What is the use of Freeze Pane?
- (e)   How does a++ differ from ++a?

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**[P.T.O.]**

- (f) What is an array variable? How does it differ from ordinary variable?
- (g) What is structure tag? Discuss its purpose too.
- (h) What are command line arguments?

### Unit-I

- 2. (a) Draw the block diagram and explain the basic organization of a computer and list out the functions performed by each unit.
- (b) What is computer virus? What are various types of threats faced by computer system?
- 3. (a) What is an operating system? Discuss the services provided by an operating system.
- (b) What is topology? Explain different types of topology with their merits and demerits.

### Unit-II

- 4. (a) What is formatting? How formatting can be in MS-Word?
- (b) What is MS-Excel used for? Explain the basic formulas used in MS-Excel.

5. (a) What is customized animation? How it can be specified in MS-PowerPoint? Explain.
- (b) What is macro? How macro can be created in MS-Word? List out the steps for macro creation.

### Unit-III

6. (a) Explain the syntax of switch construct with its rules. Illustrate with an example.
- (b) What is an array? What are the conditions that must be satisfied by all the elements of any given array? Write a program to sort the elements of an array in descending order.
7. (a) How C is structured programming language? Discuss the characteristics of structured program.
- (b) Discuss the rules that apply to a function call in C. What relationship must be maintained between actual and formal arguments? Explain with example.



**Unit-IV**

8. (a) What is union? For what kind of applications are unions useful? Explain with an example.
- (b) How array within structure is declared? Explain with program code.
9. (a) What is file? Discuss various file handling functions with code snippet.
- (b) What is debugging? Explain different types of errors occurred at compile time.