

- (b) Distinguish between structures and arrays ? How structures can be related to arrays ? 4
- (c) What are streams ? Discuss two types of stream. 6
9. (a) How pointer can be passed on to functions as the variables ? 6
- (b) Write a program in C to sort out a set of names in the alphabetical order using pointer techniques. 10
- _____

Roll No.

67001-N

MCA (Bridge Course) (MCA 2 Year Programme) w.e.f. 2020-21
Examination – July, 2022

COMPUTER FUNDAMENTALS AND PROGRAMMING IN C

Paper : 20BCC11C1

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 Units. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) What is precedence of an operator ? Explain with the help of suitable examples. $8 \times 2 = 16$
- (b) What is a NULL statement ? Explain a typical use of it.
- (c) Write a function strcpy () that copies the string1 into string2 using pointers.
- (d) What is the stored program concept ? Why it is important ?
- (e) What are pseudo codes ?

- (f) What is meant by a programming language ?
- (g) What is the difference between C and C++ ?
- (h) What are identifier and constants ?

UNIT - I

- 2. (a) What are high-level languages ? Why are they known as problem oriented languages ? Name some high-level languages. 8
- (b) Explain use of computer in Marketing and education. 8
- 3. What are the essential components of a computer ? Draw the schematic block diagram of a computer showing its essential components. Discuss the function of each unit. 16

UNIT - II

- 4. (a) What are the steps to create a Microsoft word document with the following contents of format ? 8
 - (i) Insert a table giving number of theory and practical sessions per block.
 - (ii) Demonstrate the Auto Text feature of MS-WORD.
- (b) Describe the method for inserting page breaks and page numbers in MS-Word with examples. 8

67001-N-200-(P-4)(Q-9)(22) (2)

- 5. (a) Explain the methods for formatting text in MS-Excel worksheet with example. 8
- (b) Discuss the following in MS-Word with example : 8

- (i) Find and Replace
- (ii) Header and Footer

UNIT - III

- 6. (a) What do you mean by function prototype ? Write down the advantages of function prototypes in C. 4
- (b) Write a program to find the number of vowels in the given line text. 8
- (c) Explain the difference between a function declaration and function definition. 4
- 7. (a) Write a function big to find largest for two numbers and use this function in the main program to find largest of three numbers. 8
- (b) How pointer can be passed on to functions as the variables ? 8

UNIT - III

- 8. (a) What are unions ? What is the difference between a union and a structure ? 6

67001-N-200-(P-4)(Q-9)(22) (3)

P. T. O.