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B.C.A. Ist Semester Examination, 2022

COMPUTER FUNDAMENTALS AND
PROGRAMMING IN 'C'

Paper : BCA-104

Time : 3 Hours]

[M.M. : 7

Note :- Answer any *five* questions. All questions carry equal marks.

① Explain each functional unit of a digital computer system in brief. Also, write short note on classification of computers with a suitable example of each.

② What is an operating system ? Also, convert the following :

(i) $(BACE.23)_{16} = (?)_8$

(ii) $(1101.10)_{10} = (?)_2$

3. What is an algorithm? Write an algorithm to find the greatest of four numbers. Also write short note on loader and linker.
4. Write a short note on 'Bitwise' operators. Also, differentiate between 'post-increment' and 'pre-increment' operators.
5. Why the break statement is essential in the 'switch' statement and loops? Explain with suitable example of each.
6. Discuss types of errors in C programming. Also differentiate between 'while' and 'do while' control loops with suitable example.
7. Explain type of functions. Also differentiate between call by value and call by reference of function calling with the help of a suitable program.
8. What is an Array? Write a 'C' program to find sum of diagonal elements of a matrix.

9) What is meant by pre-processor directives ? Explain #define directive in brief.

10) What is a pointer ? Also, write a program in 'C' which accepts an integer (range 1 to 999) and display it in words. (Test Case : Input : 321, Output : Three Two One).