Reg. No.

I Semester B.C.A.2 Degree Examination, October/November 2014

(Repeaters)

COMPUTER CONCEPTS AND 'C' PROGRAMMING

Time : 3 Hours] [Max. Marks : 80

Instructions : *Answer the questions of all three sections.*

SECTION – A

I.   Answer **any ten** questions. Each question carries **2** marks :   **(10 × 2 = 20)**

1.   List the functions of control unit.

2.   Differentiate between Volatile and Non-volatile memory.

3.   What are the merits of HLL?

4.   State the characteristics of 'C' Language.

5.   Name any four fundamental datatypes.

6.   Convert the following expression to 'C' expression :

(a) $z = \sqrt{\dfrac{x^2 + y^2}{25}}$

(b) $A = (2x + 1)(3y + z)$

7.   Give the syntax of Switch Statement.

8.   What is the use of break statement?

9.   Write the syntax of strcat( ), strcmp( ) functions with an example.

10.   What is structure? How to define structure?

11.   What is Pointer? How to declare Pointers?

12.   List out categories of user defined functions.

P.T.O.

SECTION – B

II. Answer **any six** questions. Each question carries **5** marks :   (6 × 5 = 30)

13. What is computer? State characteristics of computer.

14. Explain basic structure of 'C' program.

15. Draw a flowchart to find largest among three numbers.

16. Explain briefly looping statements in 'C'.

17. Write a program to find factorial of given number.

18. What is one dimensional array? Write a program to read and display marks of 10 students.

19. Differentiate between call by value and call by reference.

20. Write a 'C' program to generate Fibonacci series upto 'n' terms.

SECTION – C

III. Answer **any three** full questions. Each carries **10** marks :   (3 × 10 = 30)

21. Draw and explain with neat block diagram of modern digital computer.

22. (a) What is constant? Explain in detail different types of constants.

    (b) Explain different types of binary operators.

23. Differentiate between entry controlled loop and exit controlled loop with an example.

24. How to define two dimensional array? Write a program to find trace a square matrix.

25. Write a program to find given string is palindrome or not using function.

———————