DEC 2019 /Backlog

F. Y. B.TECH. (PROGRAM/CB/NCB) (SEMESTER - II)

COURSE NAME: Computer Fundamentals (NCB)

COURSE CODE: CS10182B NCB

(PATTERN 2018)

Time: [2 Hours] [Max. Marks: 50]

(*) Instructions to candidates:
1) Attempt Q.1, Q.2, Q.3, Q.4 Or Q.5, Q.6 Or Q.7, Q.8 Or Q.9 and Q.10

2) Figures to the right indicate full marks.
3) Use of scientific calculator is allowed.
4) Use suitable data where ever required.

Q 1) a) What is Operating System? Enlist the functions of operating system. Explain anyone. [4]

OR

b) What is an interpreter? How does it differ from a compiler? [4]

Q 2) a) Distinguish algorithm & flow chart with example. [4]

OR

b) How can we detect and correct syntax errors in a program? [4]

Q 3) a) Which of the following are invalid variables names and why?
i)Minimum   ii)First.name   iii)n1+n2
iv)float   v)3rd_row   vi)_sum
vii)Row Total   viii)Column-total   ix)Row_total. [6]

OR

b) What are format specifiers. Enlist format specifiers for integer ,real , character and string. [6]

Q 4) a) What is Pointer? Explain with suitable example? [5]
b) Write a C program to find largest of 2 numbers [5]

OR

Q 5) a) Which of the following prototype declaration are invalid? Why?
(a)int(fun) void;   (b) double fun(void)   (c)void fun(void, void)
(d) int fun (int a,b)   (e)fun (int, float, char) [5]
b) Define array. Write the syntax for array declaration and initialization [5]

Q 6) a) What is MATLAB? Write Features of MATLAB? [5]
b) List and write purpose of commonly used input and output commands in MATLAB? [5]

OR

Q 7) a) What is use of semicolon (;) in MATLAB? Explain with example? [5]
     b) Define terms [5]
       1)Command window
       2)Command History
       3)Workspace
       4)Current folders

Q 8) a) Explain Mathematical function-POWER with example. [5]
     b) Explain logical function-AND with example. [5]

<div align="center">OR</div>

Q 9) a) Explain Pivot table with example. [5]
     b) Explain Statistical function- Average with example. [5]

Q 10) Write the correct option
     a)MATLAB stands for? [1]
     1) matrix laboratory
     2) math library
     3) matric library
     4) matrix library

     b)What would be the output of the following code (in editor window)? [1]
     A = [0 1; 1 0] ;   B=2;   C = A + B;

     1)1   2   2)3 3
       4   5   3 3
     3) 2   3   4)3 2
        3   2   2 3

     c)What operator helps in the transpose of a matrix? [1]
     1) " .' "
     2) " ` "
     3) "./ "
     4) " .\ "

     d)Which of the following tag is used to mark a beginning of paragraph ? [1]
     1) <TD>
     2)
     3) <P>
     4) <TR>

     e)Correct HTML tag for the largest heading is [1]
     1) <head>
     2) <h6>
     3) <heading>
     4) <h1>

     f)Which function in Excel checks whether a condition is true or not ? [1]
     1) SUM
     2) COUNT
     3) IF
     4) AVERAGE