End Semester/Retest Examination 2020

Semester: 3rd

Subject code: Co-301

Subject: Computer Application & Programming (New)

Total Mark: 70   **Total Time: (3) hours**

PART- A
(Mark:25)

(All the questions of part A are compulsory)
Mark shown against the questions

1) Fill in the blanks   1x5=5

   a) ICs have been introduced in computer systems from ____ Generation Computer.
   b) EPROM stands for _____
   c) Main Circuit board of a PC is commonly known as _____
   d) HUB is one of the _____ Devices.
   e) 'autosum' is one the features of Ms-_____

2) Write down whether the followings are true/false   1x5=5

   a) Scanner can be used both as input as well as output Device
   b) ASCII codes are 7-bit.
   c) Trojan is an application software
   d) BING is an example of virus
   e) In C, '==' in one of the relational operators.

3) Choose the correct option   1x5=5

   i) Full Form of LCD is
   a) Video Graphics Array
   b) Visual Graphics Array
   c) Liquid Crystal Display
   d) Video Graphics Adapter

   ii) The word "Computer" usually refers to the Central processing unit plus?
   a) External memory
   b) Internal memory
   c) Peripherals
   d) None of the above

   iii) Which menu in MS-Word can be used to change character size and typeface?
   a) View
   b) Tools

c) Format

d) Data

iv) **Which device is required for the Internet connection?**

a) Joystick

b) CD Drive

c) Modem

d) None of the above

v) **Internet protocols are used for**

a) Data Compression

b) Network programming

c) Virus protection

d) None of the above

4) **Answer the followings in one word/sentence**   1x10=10

i)   What is the full form of BIOS?

ii)   Give an example of Secondary Computer Memory

iii)   BCD of 56 is _____.

iv)   Which part of an operating system provides us the hardware resources?

v)   Give an example of Multitasking Operating System

vi)   Why a new hard disk is necessary to be formatted?

vii)   Find 2's compliment of 110001_2

viii)   What is the max size in MB of a file to be sent over e-mail?

ix)   Give an example of a pre-processor directive used in C?

x)   Which function must be there in any C Program?

PART – B
(Mark:45)

(This part consists of 7 questions each of which carries 9 mark equally. Out of 7 answering any five is compulsory).

Q1) **Define the followings with an example** *(any six)*   1.5x6=9

Digital System, variable, Virus, LAN, webpage, Website, De-fragmentation, data type qualifier, Array

Q2) **Answer the following:**

a)   What do you mean by an operating System? Give an example.   2

b)   Point out the differences amongst the different types of operating System giving example of each type   5

c)   What would be the problem in a PC without any Operating System?   2

2

Q3) Differentiate between *(any two)*   4.5x2=9

   a)   Application software and system software (with examples)
   b)   Network protocol and network topology
   c)   While and do-while loop in C

Q4) Perform the following: 2x4.5=9

   i)   Add +17 and -13 using 1's compliment
   ii) Perform the followings
        a) Convert 25_{10} into its octal equivalent
        b) Convert 77_8 into its decimal equivalent
        c) Convert 1001011101111_2 into its hexadecimal equivalent

Q5) Write a C program to calculate the simple interest and compound interest for a principal amount 'p' at a rate of interest 'r%' for the duration of 'n' years.   9

Q6) What do you mean by Network Topology? Explain the different types of network topologies   2+7=9

Q7) Differentiate between the following: *(any three)*   3x3=9

   a) Internet Browser and Search Engine
   b) Internal MS DOS commands and External MS DOS Commands
   c) Excess-3 and Gray Code
   d) Internet and intranet

****