மாகாணக் கல்வித் திணைக்களம்,வடக்குமாகாணம்
Provincial Department of Education, Northern Province

இரண்டாம் தவணைப்பரீட்சை -2019
Second Term Examination -2019

தரம் -10
Grade -10

தகவல் தொடர்பாடல் தொழிநுட்பம்
Information and Communication Technology

நேரம் -3மணி
Time -3Hours

பகுதி - **II**
Part -II

- Answer **Five**question only selecting the**First** questionand **Four** others
- First question carries **20** marks and each other questions carries **10** marks

01)

i. Convert the hexadecimal number **E7** into binary number with steps of conversion

ii. Write the truth tableto the Boolean expression(A OR C) AND NOTB

iii. Write down the Input,Process,Output in ATM Machine

iv. Write the**four** web address in Education Sector?

v. Sort the following devices according their capacities of data storage devices (Ascending)
   A. Hard Disk B. Magnetic TapeC. Register MemoryD. Compact Disk

vi. Selecting words from the list single user, multi user, multi-tasking, Real-time

   A. Calculator.

   B. Windows Server

   C. Windows

   D. MS Dos

vii. Match column A and B.

A	B
Keyboard	HDMI
Network Switch	VGA
Monitor	PS/2
Digital TV	RJ 45

viii. The ASCII Code of the character "A" is 1000001 binary value. What is the ASCIIcode of the represent the character "F" in binary.

ix. The codes are used when storing numeric, special character and sound in internal storage devices of computer. Write down the **Two**different coding system in a computer

x. Computer network connecting devices are Switch/Hub What are the **Three** different between the Switch and Hub

(2*10=20Marks)

02)

    i.   Short out the devices according the headings **Input Device, Output Device**

           Joy Stick,Light pen,plotter, Multimedia,Barcode Reader,Printer

    ii.   Write the types of classification of secondary storage with examples

    iii.   Write the **Two** different between the Impact Printer ,Non-ImpactPrinter

    iv.   Draw the Topologies for the following and mention one of their feature

           A. Star Topology

           B. Mesh Topology

                                       (2+3+2+3 = 10 Marks)

03)

    i.   Write the Basic Components of System?

    ii.   Write 4 characteristics of information?

    iii.   Whatismeant by E- Government? Write down the **four**e-government Services?

    iv.   What are the **four** services provided by Leaning Management Systemfor the School Management?

    v.   What is meant by Telemedicine?

                                           (2+2+2+2+2 = 10 Marks)

04)

    i.   Convert in to a decimal number with steps of the conversion

           01. 101010_2 02. 404_8 03.$CO1_{16}$

    ii.   Consider the number "1002x"where"x" is Base of the number system. Whatis the number system(s) in can the number "1002x"?

    iii.   Convert in to a binary numberwith steps of the conversion

           01. 55_{10} 02. 77_8 03.EF_{16}

                                       (4.5+1+4.5 = 10 Marks)

05)

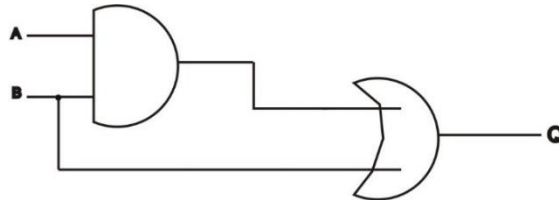i.   Write the truth tableto the Boolean expression

        i.   (A.B) + B

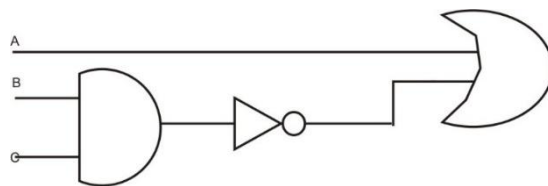   ii.   (A+B).(A.C)

ii.   Write the Boolean expression for Logic circuits

        i.

        ii.

        iii.   Draw the logic gate circuit for following expression
             $(\overline{A.B}) + B$

                                (4+4+2 = 10 Marks)

06)

    i.   What is meant by Operating system? write **3** examples

    ii.   Software is a set of instruction given to the computer. What are the type of software write one example for that

    iii.   The interface to need interact with the computer. Write down   the interface provided by the Operating system

    iv.   The process of dividing an individual drive in to multiple logical drives is called disk partitioning. Write down **Three** reason need the disk partitioning

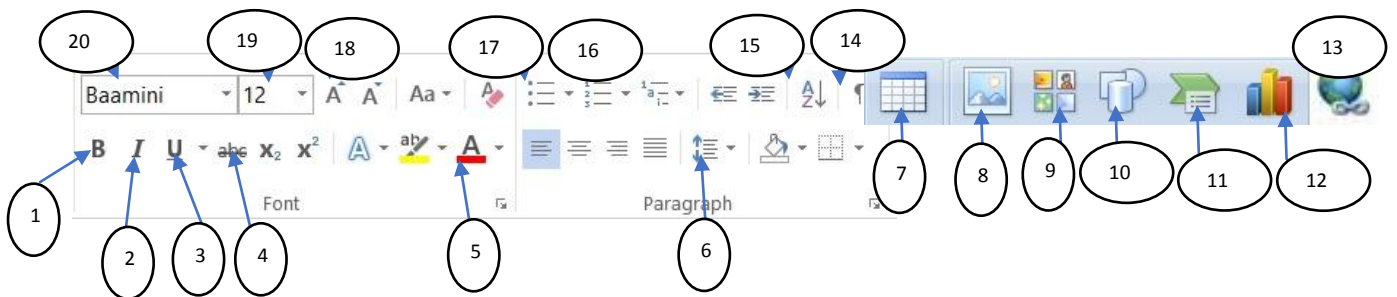   (3+3+2+2 = 10 Marks)

07) Use the following figure to answer the question below

1

The Internet has revolutionized the *computer and communications* world like nothing before. The invention of the telegraph, telephone, radio, and computer set the stage for this unprecedented integration of capabilities. The Internet is at once a world-wide

Select the numbers following toolbar

i.   What is the number that can be used to create the text (shown as 1)
ii. What is the number that can be used to create the text (shown as 2)
iii. What is the number that can be used to create the text (shown as 3)
iv. What is the number that can be used to create the text (shown as 4)
v.   What is the number that can be used to increase the font size (shown as 5)
vi. What is the number that can be used to change the font style (shown as 6)
vii. What is the number that can be used to insert the Picturein documents
viii.   What is the number that can be used to insert the Hyperlink
ix. What is the number that can be used to change the font colorin a documents
x.   What is the number that can be used to insert the bullets in a documents

(10 * 1 = 10 Marks)