2007 (A)

Time : 3 Hrs.

D₁G

Comp. & IT

Full Marks   : 80
Pass Marks : 26

*Answer **all** from Group A,*

***any four** from Group B and **any five** from Group C.*

xq A l s l Hkh] xq B l sfdllghapkj rFkk

xq C l sfdllgha ikp ituk ds mÙkj nA

The figures in right hand margin indicate full marks.

ik'oZ ds vad iwNd ds l pd gA

GROUP-A

1.(A) Select most suitable answer from among the given four

sets of answers :   **1x10=10**

fn; sx; sitlu ds pkj mÙkj easl l cl l gh mÙkj pqua%

(i)   In the decimal number system the base is :

(a)   10   (b)   20

(c)   8   (d)   2

P.T.O.

MsI hey ucj fI LVe dk cI gkrk gS&

(a)   nI   (b)   chI

(c)   vkB   (d)   nkA

(ii)   The full form of ENIAC is :

(a)   Electronic Numerical Integrator & Calculator.

(b)   Electronic Number Integrator & Computer.

(c)   Electrical Numerical Integrator & Computer

(d)   None of Above.

ENIAC dk iijk uke gS%

(a)   byDVMIud U;ejhdy bVhxVj ,.M dSydyVj

(b)   byDVMIud ucj bVhxVj ,.M dEI;Vj

(c)   byDVhdy U;ejhdy bVhxVj ,.M dEI;Vj

(d)   mijkDr eaI sclkbZughA

(iii) $(11010011)_2 = (............)_{16}$

(a) $(D4)_{16}$ (b) $(D5)_{16}$

(c) $(D3)_{16}$ (d) $(D6)_{16}$

(iv)   The full form of MBR is :

(a)   Memory Bit Register

(b)   Memory Buffer Register

(c)   Mapping Buffer Register

(d)   None of the above.

,eECchEvkjC dk iijk uke gS&

(a)   eekjhI fcV jftLVj

(b)   eekjhI cQj jftLVj

(c)   efix cQj jftLVj

(d)   Åij eaI sclkbZughA

(v) www stands for :

    (a) world width web

    (b) world wide web

    (c) world wise web

    (d) None of the above.

www dk eryc gkrk g\&

    (a) oYMZ foMFk oc

    (b) oYMZ okbM oc

    (c) oYMZ okbt oc

    (d) Åij eals clkbZughA

(vi) The amount of work that the computer system

    is able to do per unit time :

    (a) Turn around time

    (b) Throughput

    (c) Response time

    (d) None of the above.

dEI;Wj fl LVe ,d ;fuV Vkbe es ftruk dke dj

I drk gS&

    (a) Vu/jkm.M Vkbe

    (b) Fkiliy/

    (c) jLiksl Vkbe

    (d) Åij eals clkbZughA

(vii) Compilers are forms of :

    (a) Operating system

    (b) System software

    (c) Application software

    (d) None of the above.

dikbyj ,d idkj dk .... gA

    (a) vkWijsfVax flLVe

    (b) flLVe lkW¶Vos;j

(c)   ,lyhdsku lkṀVosj

(d)   Åijealsclb¼lughA

(viii)   DOS is a :

(a)   Single user O.S.

(b)   Multi-user O.S.

(c)   Single layer O.S.

(d)   None of the above.

MkW gS%

(a)   flxy ;wtj vks,l-

(b)   flxy ysj vks,l-

(c)   eYVh ;wtj vks,l-

(d)   Åijealsclb¼lughA

(ix)   Booting is the execution of :

(a)   Operating system

(b)   Application software

(c)   Basic input output system

(d)   None of the above.

(x)   .... is the range of frequencies that is available for the transmission of Data.

MkVk dsVkd fe'ku dsfy, tksvkofr;kadh jat gksrh gS,og

.... gA

(a)   Band width

(b)   Protocol

(c)   Modulation

(d)   None of the above.

(B)   Fill in the Blanks with the appropriate answer given in the bracket :   **1x10=10**

fjDr LFkkukadh mfpr ifrZfn;sx;sdksBdkalsdja%

(i)   A computer is an .... device.

(electronic / mechanical)

P.T.O.

dEI;Vwj ,d **......................** fMokbl gSA

(byDVkfud@;kf=d)

(ii) **.....................** are the largest and most

powerful computers.

(Super computer / extended computer)

.... ,d l cl scMk ,oa'kfDr'kkyh dEI;Vwj gSA

(lqij dEI;Vwj @ ,DlVsMM dEI;Vwj)

(iii) A note-book computer is also known

as **................ .** (Laptop / Desktop)

,d ukWVcqd dEI;Vwj **...................** dsuke l sHkh tkuk

tkrk gSA (ySiVkW @ MSld&VkW)

(iv) A CPU has **..................** and **................** as its

major components.

(ALU & CU / Keyboard & Mouse)

,d l h-ih-;w ds **..................** ,oa **...................** nks

eq[; dEikusaV gkrs gSA

(ALU ,oaCU @ dh&ckMZ ,oaekÅl)

(v) Input devices are used to enter **..................** to

computer. (Data / Knowledge)

buiqV fMokbl dEI;Vwj dks **...................** nsusdsfy,

mi;kx fd;k tkrk gSA (vkadMs/ tkudkfj;k)

(vi) Storage refers to **.............. .** (Memory / Software)

LVksjst **...................** dsfy, jQkj gkrk gSA

(eekjh / lkÝVosøj)

(vii) A screen is divided into dots called **............ .**

(pixel / line)

,d LØhu MkWV e afoHkkftr gkrk gSftls **...................**

dgrs gSA (fiDly / ykbu)

(viii) ALU stands for **.................** .

    (Arithmetic Logic Unit / Advance Logic Unit)

, ,y ;w**...................** dsfy, lf{klr g\A

    (vFkesfVd ykftd ;fuV /,MokUl ykftd ;fuV)

(ix) DRAM is a type of **.................** .

    (Memory / Processor)

DRAM **...................** dk ,d idkj g\A

    (eekjh / iksSlj)

(x) Memory can store data till **.................** is ON.

    (Computer / UPS)

eekjh MkVk dks rcrd LVksj dj l drk g\S tcrd fd

.... vkWu g\A

    (dEI;wVj /;wih-,l)

GROUP-B

Answer *any four* questions :   **5x4=20**

fdUgha pkj iz'uka ds mÙkj nsa %

2. Describe the characteristic feature of First generation computers.

QLVz tujsku dEI;wVj ds pkfjf=d xqkka dks foLrkfjr djsaA

3. Convert the following decimal numbers to binary numbers :

fuEu Mslsey ua-jkas dks ckbujh ua-j esa cnysa %

  (a) $(435)_{10}$ (b) $(32)_{10}$

  (c) $(1694)_{10}$ (d) $(135)_{10}$

4. What is the role of DMA controller in data-transferring?

MkVk&VªkUlfjax esaMh-,e-,- dk D;k jksy g\S\

5. What is Magnetic disk ? Write the operation of Magnetic

disk.

e�X;ufVd fMLd D;k gS\ eX;ufVd fMLd dsvkWj‘ku dksfy[kA

6. What is the difference between RAM and ROM ?

jSe vkSj jkSe eaD;k varj gS\

7. List out the main functions of the CPU.

lh-ih-;w dseq[; dk;ksadksfy[kA

GROUP-C

Answer **any five** questions :　　　　　　**8x5=40**

fdUgha ikp iz'uka dsmÙkj nsa%

8. Write short notes on **any three** of the following :

fuEufyf[kr esals *fdUgha rhu* ij laf{kIr fVIi.kh fy[ka%

(i) Modem ½ekWMe½

(ii) Multiplexer ½eYVhIysDlj½

(iii) Ethernet ½bFkjuVV½

(iv) Communication Protocols

½dEE;unhd'ku iksVksdkWYl½

9. Write down the purpose of ASCII. List out the

important work of ISDN.

ASCII ds dk;ksadksfy[kA ISDN dsegRoiwkZdk;ksadksfyLV

djaA

10. Write down some important features of Windows XP

O.S. & compare it with windows 95 O.S.

foMkst ,DI &ih vkWijsfVax fl LVe dsegRoiwkZi{kkadksfy[kavkSj

bl dh rqyuk foMkst 95 vkWijsfVax fl LVe l sdjaA

11. "The operating system acts as the Manager of the

various resources of a computer -system". Discuss this

statement.

P.T.O.

^vkWjfVx fl LVe dEi;Wj dslkjslddk/kukdsfy, iczfkd dk jksy

fuHkkrk gA** bl dFku dk o.ku djA

12. What is FTP (File Transfer Protocol) ? List out the steps

involved in downloading / uploading a file by FTP.

FTP D;k gS\ fdlh Qkby dksbl ds}kjk MkmuyksM @ viykM

djusdh ifØ;k dksfy[kA

13. Write short notes on the following :

fuEufyf[kr ij lf{kIr fVIi.kh fy[ka%

(i) Compiler

¼dkEikbyj½

(ii) Loader and Linker

¼ykMMj vkSj fyadj½

14. What is seek time, Latency time and Transfer rate of a

Hard-disk ?

,d gkMZ&fMLd dk flddVkbe] ySVdlh Vkbe vkSj Vkd Qj jkV D;k

gksrk gS\

15. Write down the definition of Software. What is the

difference between Application Software & System

Software ?

lk¶Vos;j dh ifjHkk"kk fy[kA flLVe lk¶Vos;j vkSj ,IyhdsÝku

lk¶Vos;j esaD;k varj gS\

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