END SEMESTER REGULAR/RETEST EXAMINATION, JULY – 2023

Semester : 4th

Subject Code : CO 405

COMPUTER HARDWARE AND NETWORKING

Full Marks – 35

Time – Two hours

The figures in the margin indicate full marks for the questions.

Instructions :

(i) *All* questions of PART – A are compulsory.

(ii) Answer questions from PART – B as directed.

PART – A

Marks – 12

1. Fill in the blanks :   1×4=4

   (a) The length of an IPv4 address is _____ bits.

   (b) Default subnet mask for Class-A Network is _____ .

[Turn over

(c) NIC stands for _____ .

(d) MODEM stands for _____ .

2. Write True or False : 1×4=4

(a) A L2 Switch is a layer 2 device.

(b) DOS is an example of Network OS.

(c) DNS stands for Domain Name system.

(d) Twisted Pair cable has 5 pairs of wires.

3. Choose the most appropriate answers : 1×4=4

(a) Which is a volatile memory ?

   (i) RAM   (ii) PROM

   (iii) ROM   (iv) EPROM

(b) A computer when takes part in a network is called

   (i) Client   (ii) PC

   (iii) Node   (iv) System

(c) Which one is not a network topology ?

   (i) Star   (ii) Bus

   (iii) Hub   (iv) Ring

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(d) SCSI stands for

   (i) Small Computer System Internet

   (ii) Small Computer System Interface

   (iii) System Computer Small Interface

   (iv) Small Computer Single Interface.

PART – B

Marks – 23

• Answer any *four* questions from (Q. No. 4-8) :

2×4=8

4. Define the term POST.

5. Differentiate between UPS and SMPS.

6. Explain how Switch is better than HUB.

7. Explain the functions of DNS and DHCP server.

8. Define the term Impact and Non impact printer with example of each.

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• Answer any *five* questions from (Q. No. 9-14) :

$3 \times 5 = 15$

9. What is meant by Hard drive partitioning ?

10. Explain about Class full and Classless IP addresses.

11. Explain with diagram the pin connection of RJ45 connector for both Cross over cable and Straight through cable.

12. Explain the function of ROM BIOS.

13. Explain about the function of North-bridge and South-bridge of a motherboard.

14. State the needs for various protocols in Computer networks.