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BOARD DIPLOMA EXAMINATION, (C-16)

JUNE/JULY—2022

DECE - FIFTH SEMESTER EXAMINATION

COMPUTER HARDWARE AND NETWORKING

Time : 3 hours] [*Total Marks* : 80

PART—A 3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. What is an expansion slot? List any four expansion slots available on motherboard.

2. Draw and give the connector details of USB.

3. State the use of windows registry.

4. List any six popular antivirus software available in the market.

5. List any three disadvantages of bus topology.

6. Draw the cross-sectional view of co-axial cable used in networking.

7. What is Sky WAN?

8. Identify the class of IPv4 classful addressing given below :
   (a) 192.168.1.10
   (b) 128.10.10.1
   (c) 01011110.10101010.11110000.00000001

9. What is gateway? State the use of gateway in computer networking.

10. State the purpose of proxy server.

PART—B

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. *(a)* Explain the working of LED monitor.   8

(b) List any four specifications of LED monitor.   2

12. Explain various specifications of a processor.   10

13. *(a)* Describe the process of disk formatting.   7

(b) State the need of disk partitioning.   3

14. Draw TCP/IP reference model and explain the functions of each layer.   10

15. Explain circuit and packet switching techniques used in networking. 10

16. Explain IEEE 802.3 Ethernet frame format.   10

17. Illustrate and explain three-way hand shake for connectivity of systems using TCP.   10

18. Explain how email is transferred with a neat block diagram. 10

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