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BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2023
DBME – FIFTH SEMESTER EXAMINATION

COMPUTER NETWORKS

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. List the motherboard components.

2. List various memory technologies.

3. Write the advantages of star topology.

4. Write the functions of router.

5. Differentiate between switch and hub.

6. Define the term error control.

7. List random access protocols.

8. Write about Fibre Distributed Data Interface (FDDI).

9. What are store and forward switching?

10. Write about SMTP.

Instructions : (1) Answer either *(a)* or *(b)* from each question from Part-B.

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

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

11. *(a)* Explain the features of 4th Generation Intel Core Processors.

(OR)

(b) Explain the operation of laser printers.

12. *(a)* Explain OSI reference model with emphasis on each layer.

(OR)

(b) Explain the working of token ring network.

13. *(a)* Explain Point-to-Point Protocol (PPP).

(OR)

(b) Explain IEEE 802 standard for wired LANs.

14. *(a)* Explain about the shortest path routing.

(OR)

(b) Explain the role of network layer in the internet.

15. *(a)* Explain the architecture overview of World Wide Web.

(OR)

(b) Explain the role of DNS server.

PART—C

10×1=10

Instructions : (1) Answer the following question.

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

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

16. Explain the differences between the formats of IPV4 and IPV6.

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