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BOARD DIPLOMA EXAMINATION, (C-20)

DECEMBER—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. List the functions of chipsets.
2. List the features of DDR2 SDRAM.
3. State the need for disk partitioning.
4. List any six popular anti-virus software available in the market.
5. Define computer network and state its use.
6. Define the network topology.
7. Define virtual circuit approach in packet switching.
8. State the need for protocols in computer networks.
9. State the use of switch and bridge in constructing networks.
10. State the purpose of proxy server.

PART—B

8×5=40

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- Instructions :** (1) Answer **all** questions.
(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 working of hard disk.

(OR)

(b) Explain the working of LED monitor.

12. (a) Explain the editing of CMOS set-up.

(OR)

(b) Explain the steps involved in the installation of Windows OS.

13. (a) Explain the bus, star and ring network topologies.

(OR)

(b) Draw the ISO : OSI 7-layer architecture and explain the function of each layer.

14. (a) Explain the circuit switching and packet switching.

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(OR)

(b) Explain the CSMA/CD and CSMA/CA.

15. (a) Explain class full addressing in IPv4.

(OR)

(b) Explain the file transfer operation using FTP.

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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 packet transfer mechanism using router and IP address.

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