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C16-EC-503

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BOARD DIPLOMA EXAMINATION, (C-16)

AUGUST/SEPTEMBER—2021

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 different expansion slots available on the motherboard.
2. List various SMPS power supply connectors used in PC-AT.
3. Define the power-on-self-test (POST).
4. List popular antivirus software available in market.
- * 5. Define network topology.
6. List different types of physical transmission media used in networking.
7. State the need for protocols in computer networks.
8. State the uses of routers in networking.
9. List the features of transmission control protocol (TCP).
10. Mention the role of DNS server.

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[*Contd...*

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* PART—B

10×5=50

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. Draw the component layout of PC-AT motherboard. Explain briefly about the function of each component.
12. Explain the working of hard disk and data access.
13. Explain the general steps involved in the installation of WINDOWS OS.
14. Explain bus, star and ring network topologies.
15. Explain circuit switching and packet switching.
16. Explain the working of Token-ring network.
17. (a) Define internet.
(b) Explain classful addressing in IPv4.
18. Explain end-to-end connectivity in TCP using ports and sockets.

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