C09–EC–**606** A

3762

BOARD DIPLOMA EXAMINATION, (C–09)
SEPTEMBER/OCTOBER - 2020
DCE—SIXTH SEMESTER EXAMINATION

DATA COMMUNICATION AND 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 different transmission media.

2. Define channel capacity.

3. Define computer network and state its use.

4. Distinguish between circuit switching and packet switching.

5. Write the applications of WAP.

6. Write different layers of TCP/IP.

7. What is ARPANET?

8. Briefly explain the operation of repeater.

9. List HTTP commands.

10. What is an Web application?

PART—B   10×5=50

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

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

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

11. *(a)* Explain serial and parallel communication.

(b) Write about infrared and light wave transmission.

12. Explain cross-section and applications of coaxial cable and optical fibre.

13. Describe STAR and RING network topologies.

14. Explain the functions of OSI 7 layer model.

15. *(a)* Explain WAN architecture.

(b) Describe packet forwarding in WAN.

16. Explain the IP addressing concepts.

17. *(a)* Write the role of DNS server.

(b) Write the purpose of proxy server.

18. Explain the working of Web browser.

★ ★ ★