This question paper contains 4 printed pages]

2410-N

BACHELOR OF COMPUTER APPLICATION

BCA (II Year) Examination, 2019

DATA COMMUNICATION AND COMPUTER NETWORKING

Paper-V (BCA-205)

Time Allowed : Three Hours

Maximum Marks : 75

*Attempt **five** questions in all, selecting **one** question from each unit. **All** questions carry equal marks.*

*प्रत्येक इकाई में से **एक** प्रश्न का चयन करते हुए, कुल **पाँच** प्रश्नों के उत्तर दीजिए । **सभी** प्रश्नों के अंक समान हैं ।*

UNIT-I

1. What are the components of data communication system ? List them. Explain model of a data communication in brief. 15

2. What is the data transmission concept ? Discuss analog and digital transmission in detail. 15

UNIT-II

3. (*a*) What do you mean by transmission impairments ? Discuss in detail. 15

(*b*) Discuss : 2×7.5=15

(*i*) Channel capacity

(*ii*) Bandwidth.

4. What do you mean by half duplex and full duplex transmission ? Discuss both the types of transmission with suitable diagram and example. 15

UNIT-III

5. What do you mean by switching ? Discuss circuit switching, packet switching and message switching with suitable examples. 15

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6. (a) Discuss connection oriented and connection less services with suitable diagrams.

(b) What do you mean by protocols and standards ? Discuss. 2×7.5=15

UNIT-IV

7. What do you mean by OSI model ? Discuss various layers of OSI communication model. 15

8. Explain the difference between : 2×7.5=15

(a) PSTN and ISDN https://www.uokonline.com

(b) DSL and Cable TV modem.

UNIT-V

9. Write short notes on : 15

(a) SNMP

(b) HTTP

(c) SMTP

(d) FTP.

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10. Discuss :

(a) Network security and privacy

(b) Impact of social engineering sites.

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