

SCR-5624

B. C. A. (Second Year) Suppl. Examination, 2019

(Gr.-II)

Paper : BCA-24

DATA COMMUNICATION and COMPUTER NETWORKS

Time Allowed : Three hours

Maximum Marks : 40

**Note : Attempt questions of all three sections as directed.
Distribution of marks is given with question.**

Section-'A'

(Objective Type Questions)

5×1=5

**Note : Attempt all questions. Each question carries
1 mark.**

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1. Choose the correct answer :

(i) A computer network permits sharing of :

- (a) Resources
- (b) Information
- (c) Both (a) & (b)
- (d) None of these

(ii) Wireless Transmission can be done via :

- (a) Radio waves
- (b) Microwaves
- (c) Infrared
- (d) All of the above

(iii) Which of the following is an example of bounded medium :

- (a) Coaxial cable
- (b) Wave guide
- (c) Fiber optic cable
- (d) All of above

(iv) FDDI stands of :

- (a) Fiber Design Data Interface
- (b) Fox Design Data Interface
- (c) Fiber Distributed Data Interface
- (d) Fox Distributed Data Interface

(v) Which type of Ethernet framing is used for TCP/IP?

- (a) Ethernet 802-3
- (b) Ethernet 802-2
- (c) Ethernet II
- (d) Ethernet SNAP

Section-'B'

(Short Answer Type Questions) 5×2=10

Note : Attempt all questions. One question from each unit is compulsory. Each question carries 2 marks.

Unit-I

2. What do you mean by Packed Switching?

Or

Explain the role of noise and bandwidth in communication.

Unit-II

3. Represent bit stream 10101101 in Manchester bit encoding schemes.

Or

Explain Time Division Multiplexing.

Unit-III

4. Write short note on stop and wait protocol.

Or

Explain different ARQ techniques.

Unit-IV

5. Explain IEEE 802.4 standard.

Or

Describe the working of FDDI.

Unit-V

6. What are the basic difference between Intranet and Internet?

Or

What is the basic principle of routing?

Section-'C'

(Long Answer Type Questions) 5×5=25

Note : Attempt all questions. One question from each unit is compulsory. Each question carries 5 marks.

Unit-I

7. Describe packet switching and circuit switching.

Or

What is ISDN? How is it different from BISDN?

Unit-II

8. What is error detection techniques? Also explain Cyclic Redundancy Check (CRC). <http://www.ujainstudy.com>

Or

List the name of various layer of OSI model and specify the function of each layer.

Unit-III

9. Explain different types of line discipline at data link layer.

Or

What is HDLC Frame Format? Explain the function of each bit.

Unit-IV

10. Differentiate between LAN and WAN.

Or

Describe pure and slotted ALOHA in detail.

Unit-V

11. Describe any two :

- (a) Least cost routing algorithm
- (b) Dijkstra's routing algorithm
- (c) Bellman-Ford routing algorithm
- (d) Encryption and description techniques

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