

Roll No. Total No. of Printed Pages : 4

Code No. : BC-294

Online Annual Examination, 2022

B.C.A. Part II

Paper IV

COMPUTER NETWORKS

Time : Three Hours] [Maximum Marks : 80

Note : Section 'A', containing 10 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

Section 'A'

Answer the following very short answer type questions in one or two sentences. 1 × 10 = 10

1. What is NIC ?
2. What is data encapsulation ?
3. What is the difference between the Internet, Intranet, and Extranet ?
4. What is a VPN ?

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5. What are Ipconfig and ifconfig ?
6. What is SNMP ?
7. What do you understand by broadband connection ?
8. Define protocol.
9. What do you understand by topology ?
10. How many types of modes are used in data transferring through networks ?

Section 'B'

Answer the following short answer type questions with word limit 150-200. 4 × 5 = 20

1. Why is layered architecture of network preferred ?

Or

What is the principal difference between circuit switching and packet switching ?

2. Point out how errors are detected using CRC.

Or

What is meant by FTP ? Discuss the merits and demerits of using this technique.

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3. Discuss about any *two* methods of framing.

Or

Compare virtual circuits and datagrams.

4. List the features of session layer.

Or

What is modern and code C ?

5. What do you understand by Network layer ? Point out its features.

Or

What are the primary services offered by a computer network ?

Section 'C'

Answer the following long answer type questions with word limit 300-350. 10 × 5 = 50

1. Describe the structure of network layer in the internet.

Or

Discuss the services offered by the application layer.

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2. Describe the ATM AAL layer protocols.

Or

Write short notes on the following :

(a) World Wide Web

(b) High Speed LANs.

3. Explain the applications of computer networks.

Or

Discuss the methods used for controlling errors in datalink layer.

4. Explain the various media used for data transmission in computer networks.

Or

Explain any *two* protocols used by the datalink layer.

5. Explain the multi path routing algorithm.

Or

Discuss the features of ATM networks.

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