This question paper contains 3 printed pages. Roll No. .....

B.C.A. (Part-III) **Net. Tech.**

303

B.C.A. (Part-III) Examination, 2021

(Faculty of Science)

(Three-Year Scheme of 10+2+3 Pattern)

NETWORKING TECHNOLOGIES

Time Allowed : 3 Hours **Maximum Marks : 100**

Answer of all the questions (short answer as well as descriptive) are to be given in the main answer-book only. Answers of short answer type questions must be given in sequential order. Similarly all the parts of one question of descriptive part should be answered at one place in the answer-book. One complete question should not be answered at different places in the **answer-book**.

No Supplementary answer-book will be given to any candidate. Hence the candidates should **write the answer precisely** in the main answer-book only.

Write your roll number on question paper before start writing answers of questions.

Question paper consists of **three** Parts.

All three parts are compulsory.

PART-I : **(Very Short Answer) consists** 10 questions of 2 marks each. Maximum limit **for each question is upto 40 words.**

PART-II : **(Short Answer) consists 5 questions of 4 marks each.** Maximum limit for each **question is** upto **80 words.**

PART-III : **(Long Answer) consists 5 questions of 12 marks each with internal choice.**

PART-I

1. Attempt all questions. **Each question carries 2 marks :**

   (a) What is a Network?

   (b) What is Bandwidth?

   (c) Define DNS.

(d) What is Link?

(e) What is Gateway?

(f) Define DHCP scope.

(g) What is MAC Address?

(h) What is TCP/IP?

(i) What is SSL?

(j) What is Computer Network? 10×2=20

PART-II

2. Attempt all questions. Each questions carries 4 marks : 5×4=20

(a) Explain types of Networks.

(b) Define the types of Transmission Modes.

(c) Differentiate between LAN & WAN.

(d) What is Packet Switching? Explain.

(e) Define Microwave Communication.

PART-III

3. What are the different types of Computer Networks? Explain with suitable example. 12

OR

Explain Network Topology with example. 12

4. **What is Error Detection & Correction? Explain with example.** 12

OR

What is Open System Interconnection? Explain with example. 12

5. **Write short notes on any four :**

(a) MAC Address.

(b) DNS.

(c) TCP/IP.

(d) IPv4 and IPv6.

(e) SMTP.

(f) ISDN. 3×4=12

6. What is Data Encoding? Explain with example. 12

OR

Define TDM with example. 12

7. Write short notes on any **three** :

(a) Satellite Communication.

(b) SONET.

(c) Fiber Cable.

(d) Light sources.

(e) Microwave. **4×3=12**

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