

# **B V RAJU INSTITUTE OF TECHNOLOGY**

**(UGC AUTONOMOUS)**

B.Tech 3 Year 1 Semester Regular/Supplementary Examinations, Feb 2021

## **COMPUTER NETWORKS**

**ACADEMIC**

**Time: 3 Hours**

**Max Marks: 70**

Note: This Question Papers Contains Two Parts A and B

Part A: is compulsory Which Carries 20marks. Answer all Questions in Part A at one place only.

Part B consists of 10 Questions. Answer any five (one full question from each unit). Each question carries 10 marks and may have a, b, c as sub questions.

Part - A

(2 x 10 = 20)

1. a) What is the backbone network?
- b) What are the layers of the OSI reference model?
- c) What is the job of the Network Layer under the OSI reference model?
- d) How does a network topology affect your decision to set a network?
- e) What is the importance of the OSI Physical Layer?
- f) What is OSI, and what role does it play in computer networks?
- g) What is the purpose of cables being shielded and having twisted pairs?
- h) What are gateways?
- i) Give some examples of private network addresses.
- j) What are the functions of a network administrator?

Part - B

(5 x 10 = 50)

2 What are the important elements of the protocol?

OR

3 What is a Decoder?

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4 Which cable uses the RJ11 connector?

OR

5 What is the use of a Pseudo TTY?

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6 What is an Analog Signal?

OR

7 What is a MAC Address?

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8 What makes a network effective and efficient?

OR

9 What do you mean by network topology?

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10 a) What is sneakernet?

b) When it comes to networking, what are rights?

OR

11 a) What is one basic requirement for establishing VLANs?

b) What protocols fall under the TCP/IP Internet Layer?

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