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**SUBJECT CODE NO: - BB-2443**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. (CBCGS) (Pattern 2022) T.Y SEM V**  
**Examination November / December 2024**  
**Computer Science-XVIII B Basic Computer Network**

**[Time: 1:30 Hours]****[Max. Marks: 40]**

Please check whether you have got the right question paper.

N. B

1. All questions are compulsory
2. All questions carry equal marks
3. Illustrate your answer with suitable labelled diagram

Q1 a) What is transmission Media? Explain its different characteristics? 10

OR

- b) Explain with suitable diagram Peer to peer Network Architecture?
- c) Explain with neat different types of networks?

Q2 a) What is transmission Media? Explain its different characteristics? 10

OR

- b) Explain with suitable diagram Peer to peer Network Architecture?
- c) Explain with neat different types of network?

Q3 Short Notes on any TWO of the following: 10

- a) OSI reference Model
- b) IPV4
- c) Data encoding
- d) Computer network & its application



Q4 Multiple choice questions. 10

1. The OSI model defines layers 1, 2, and 3 as the \_\_\_\_\_ layers
  - a) physical support
  - b) network support
  - c) user support
  - d) transport
2. The OSI \_\_\_\_\_ layer is implemented mainly by software
  - a) application
  - b) session
  - c) presentation
  - d) all of the above
3. The internetworking protocol is known as \_\_\_\_\_
  - a) SMTP
  - b) PPP
  - c) TCP/IP
  - d) NNTP

4. \_\_\_\_\_ is a network that covers geographic areas that are larger, such as districts or cities.  
a) LAN                      b) MAN                      c) WAN                      d) None of these
5. A collection of interconnected networks is called as  
a) internet                      b) intranet  
c) topology                      d) interface
6. The application layer of a network  
a) establishes, maintains and terminates virtual circuits.  
b) consists of software being run on the computer connected to the network  
c) defines the users port into the network.  
d) allows communication channel to be shared.
7. An endpoint of an inter-process communication flow across a computer network is called  
a) socket                      b) pipe                      c) port                      d) machine
8. An IP address is \_\_\_\_\_ bytes in dotted decimal notation.  
a) 3                      b) 4                      c) 5                      d) None of the above
9. A device operating at network layer is called  
a) Router                      b) Equalizer                      c) Bridge                      d) Repeater
10. Which of the following protocols uses both TCP and UDP?  
a) FTP                      b) SMTP                      c) Telnet                      d) DNS

