



OP – 290

II Semester M.C.A. Examination, November 2021
(CBCS Scheme)
COMPUTER SCIENCE
MCA203T : Computer Networks

Time : 3 Hours

Max. Marks : 70

Instructions : Answer **any five** from Section – A. Answer **any four** from Section – B.

SECTION – A

Answer **any five** of the following. Each question carries **six** marks. (5×6=30)

1. How do we classify transmission media ? Explain the working of Co-Axial Cables with neat diagram.
2. Define Multiplexing. Differentiate Synchronous TDM and Static TDM.
3. Explain ISDN and HDSL Technology.
4. What is the Purpose of Physical Addressing ? Discuss frame format of Physical addressing.
5. Discuss Network Performance Characteristics.
6. Explain Multicasting addressing with neat diagram.
7. Differentiate between CSMA/CD and CSMA/CA.
8. Explain Internet Protocol Routing.

SECTION – B

Answer **any four** of the following. Each question carries **10** marks. (4×10=40)

9. a) What is Wireless Technology ? Explain different Wireless Technology with Bluetooth. 5
- b) Explain ASDL Technology. 5

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OP – 290

- 10. Explain the function of OSI-ISO model of each layer with neat diagram and how it differ from TCP/IP Model.
- 11. a) What is Routing ? Explain Distance Vector Routing Protocol with neat diagram. 5
- b) Explain Virtual Private Networks (VPN). 5
- 12. What is IPv6 addressing ? Explain IPv6 addressing in details with suitable diagram.
- 13. What is SONET ? Explain Working Principle of SONET with diagram.
- 14. What is ATM ? Explain details with neat diagram of working of ATM layers.