



PS – 388

II Semester M.C.A. Examination, Nov./Dec. 2022

(CBCS Scheme) (2020-21 and Onwards)

COMPUTER SCIENCE

2MCA3 : Computer Networks

Time : 3 Hours

Max. Marks : 70

Instructions : Part – A : Answer **any five** questions.

Part – B : Answer **any four** questions.

PART – A

Answer **any five** questions. **Each** question carries **six** marks : (5×6=30)

1. Explain half and full duplex communication in brief with example.
2. Define network topology. Explain different topologies with its merits and demerits.
3. What is switching ? Explain circuit switching technique.
4. Define multiplexing. Explain its types.
5. Discuss the functioning of ISO-OSI layering model.
6. What do you mean by transmission error ? With an example explain Cyclic Redundancy Check Technique.
7. Explain ALOHA and slotted ALOHA.
8. What are bridges ? Explain its types with advantages and disadvantages.

P.T.O.



PART – B

Answer **any four** questions. **Each** question carries **ten** marks : **(4×10=40)**

9. Explain TCP/IP Protocol suite with a neat diagram. 10
10. Explain in brief the different types of guided transmission media. 10
11. What is IPv4 addressing format ? Explain class A, class B and class C addressing format with suitable examples. 10
12. Write a note on :
- a) Point to Point (PPP)
 - b) HDLC. **(4+6)**
13. a) Explain FDMA, TDMA and CDMA. 6
- b) Write a note on Domain Name System. 4
14. a) Write a note on 802.11 wireless architecture. 5
- b) Write a short note on congestion control methods. 5
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