

VIJAYA COLLEGE

R V Road, Basavanagudi, Bangalore – 560 004.

Model Question Paper 2

COMPUTER SCIENCE – VIII

Computer Networks

Time: 3 Hrs

Max. Marks:70

INSTRUCTION: ANSWER ALL THE SECTIONS.

SECTION – A

I. Answer any ten questions. Each question carries two marks.

2x5=20

1. What is a computer network?
2. What is amplitude modulation?
3. State Nyquist signalling rate.
4. What is a modem?
5. What is network topology? Mention any two topologies.
6. What is an adaptive bridge?
7. What is multicast address?
8. What is congestion collapse?
9. What is a repeater?
10. Why are bridges used in LAN.
11. Differentiate between intra domain routing and inter domain routing.
12. Explain caching in web browsers.

SECTION - B

II. Answer any Five questions.

5x10=50

- 13.a) Explain network layer of OSI model. 5
- b) Explain optical transmission system with neat diagram. 5
14. a) Explain frequency division multiplexing in detail. 5
- b) Explain parity check method used to detect errors in network system. 5
15. a) Explain the working of token ring networks. 5
- b) Explain CSMA / CD to access shared medium in LAN. 5
16. a) Explain network performance characteristics. 5

- b) Explain sliding window protocol in detail. 5
- 17. a) Compare IPv4 and IPv6. 5
- b) Write a note on broadcast and satellite system. 5
- 18. a) Write a note on address resolution protocol. 5
- b) Write a note on Thicknet working. 5
- 19. a) Write a short note on flooding. 5
- b) Explain various DSL technologies. 5
- 20. a) Explain TCP services. 5
- b) Write a note on email. 5