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# BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2025 2018, 2019, 2020, 2021 ADMISSIONS SUPPLEMENTARY SEMESTER VI - CORE COURSE (COMPUTER APPLICATIONS) CA6B11B18 - Computer Network

Time: 3 Hours Maximum Marks: 80

#### Part A

## I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

- For n devices in a network, what is the number of cable links required for a mesh topology?
- 2. Differentiate analog and digital signals.
- 3. List out any two routing methods of Network layer.
- 4. Which are the unidirectional antennas?
- 5. Name the different types of multiplexing.
- 6. List out different guided transmission media.
- 7. Explain the concept of slotted Aloha?
- 8. Perform XOR operations on the following set of data a. 1011 and 1100. b. 1100001 and 100001
- 9. Explain Traffic shaping?
- 10. Explain EGP?
- 11. Explain URL with an example.
- 12. What is telnet?

#### Part B

## II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. What is network Topology? Explain different topologies in detail with neat diagrams
- 14. Explain the datagram network .
- 15. Differentiate circuit switching and packet switching with neat diagrams.
- 16. Explain Stop and Wait Protocol?
- 17. Define Hamming Distance
- 18. Explain the token bucket algorithm in congestion control?
- 19. Define the terms Unicasting, Multicasting, Broadcasting.
- 20. Explain Email system in detail?
- 21. Explain the following application layer protocols. 1. SMTP 2. FTP

#### Part C

### III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

- 22. Discuss different types of Networks each with neat diagram.
- 23. What is CRC ? Given the dataword 1010011010 and the divisor 10111. a. Show the generation of the codeword at the sender site. b. Show the checking the codeword at the receiver site.
- 24. Explain in detail different Connecting Devices.
- 25. Discuss design issues of Application layer.