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QP CODE: 24001089

Reg No	:	
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# B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

## Sixth Semester

# **CORE COURSE - EL6CRT18 - COMPUTER NETWORKS**

Common for B.Sc Electronics Model III & B.Sc Electronics and Computer Maintenance Model III

### 2017 Admission Onwards

BEC0C29E

Time: 3 Hours

Max. Marks: 80

Part A

Answer any **ten** questions. Each question carries **2** marks.

- 1. Name the factors that affect performance of network.
- 2. In OSI model which layer is responsible for error correction?
- 3. What is attenuation?
- 4. To guarantee the detection of up to s errors in all cases, the minimum Hamming distance in a block code must be -----
- 5. Define fixed sized and variable sized framing.
- 6. A pure ALOHA network transmits 200-bit frames on a shared channel of 200 kbps. What is the requirement to make this frame collition-free?
- 7. Define controlled access protocols.
- 8. Ipv64 have -----bit Addresses.
- 9. What is ERP ?
- 10. List the functions of presentation layer.
- 11. Give some methods for traffic shaping.
- 12. Describe the role of DNS in internet.

(10×2=20)

Answer any **six** questions. Each question carries **5** marks.

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Part B





- 13. Explain different data flow directions.
- 14. Explain the performance and applications of any one guided and unguided transmission media.
- 15. Compare performance of FDM and TDM schemes. List the advantages and disadvantages of both.
- 16. Discuss about Stop and wait protocol.
- 17. Discuss about Stop and Wait with ARQ protocol.
- 18. Explain briefly about CDMA.
- 19. With necessary diagram explain the Shortest Path routing algorithm.
- 20. Explain File Transfer Protocol.
- 21. What is meant by Encryption?

(6×5=30)

#### Part C

### Answer any **two** questions. Each question carries **15** marks.

- 22. Explain the characteristics and components of data communication.
- 23. Compare working of circuit switched network with datagram network. Discuss its limitations and advantages.
- 24. Draw the frame format of Standard Ethernet and explain each field.
- 25. What are the functions of Network Layer? Explain.

(2×15=30)