



R20 Regulation

Subject code: 305BB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech V Semester Supplementary Examinations, December 2024

COMPUTER NETWORKS

(EEE)

Maximum Marks: 70

Date: 08.01.2025 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)

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|----|--|
| 1 | What are the advantages and draw backs of mesh topology? |
| 2 | What is circuit switching? |
| 3 | Write about error control? |
| 4 | Explain the term Flow control. |
| 5 | What is the difference between port number and IP address? |
| 6 | Discuss in brief about DHCP |
| 7 | What are the responsibilities of Transport Layer? |
| 8 | Draw TCP and UDP header format. |
| 9 | Compare HTTP and FTP. |
| 10 | What is the significance of DNS? |

Part-B

Answer All the following questions. (10M X 5=50Marks)

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|----|--|
| 11 | Illustrate with neat diagram of ISO/OSI model. [10] |
| OR | |
| 12 | A) With neat sketch explain Circuit switching in detail
B) Explain the differences between switching methods. [5+5] |
| 13 | Explain the following ARQ techniques in detail. [5+5]
i) Stop and wait ARQ. ii) Selective repeat ARQ. |
| OR | |
| 14 | A) Describe about the controlled access.
B) Give a detail note on hamming code. [5+5] |
| 15 | Draw and explain each field in the IPV4 datagram format. [10] |
| OR | |
| 16 | How ICMP and IGMP differ from each other? In which layer do these protocols works. [10] |
| 17 | Explain the various steps that are followed in releasing a TCP connection. [10] |
| OR | |

18	Define the process to process delivery	[10]
19	Write a detailed note on E-mail in reference to Application Layer.	[10]
	OR	
20	A) How does DNS perform name resolution? Explain with example. B) What is a URL and explain about its components.	[5 + 5]