

No Preview  
Available

Total No. of Question : [4]

Registration No. : 

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**Programme Name : Bachelor of Computer Science Engineering**  
**Regular S.Y.B.Tech.Sem.IV ESE May / June 2023**  
**IV SEMESTER ( 2021 BATCH)**  
**201CSL212-Computer Networks**

Duration : 2 Hours

Marks : 50

Instructions :

(Q1) All questions are compulsory. [20.0]

(a) Explain functions of Session layer, Presentation layer and Application layer of OSI model. [6.0]

CO :- 1  
Blooms Taxonomy :- Understand

(b) What is piggybacking? Explain Stop and Wait ARQ protocol in detail. [6.0]

CO :- 2  
Blooms Taxonomy :- Understand

(c) What is fragmentation? Explain fields related to fragmentation present in IP datagram header format. [8.0]

CO :- 2  
Blooms Taxonomy :- Understand

(Q2) Attempt any one question from b and c. [10.0]

(a) What is forwarding of IP packet? Explain following forwarding techniques. [5.0]  
i) Next-hop method  
ii) Network specific method  
iii) Host specific method

CO :- 2  
Blooms Taxonomy :- Understand

(b) Discuss shortest path algorithm in brief with example. [5.0]

CO :- 2  
Blooms Taxonomy :- Understand

**OR [ b / c ]**

(c) What is jitter? Describe jitter control. [5.0]

CO :- 2

**Blooms Taxonomy :- Understand**

**(Q3) All Questions are compulsory.** [10.0]

(a) Explain features of UDP and their advantages and disadvantages. [5.0]

**CO :- 3**

**Blooms Taxonomy :- Apply**

(b) Describe connection termination in TCP using three way handshaking with diagram. [5.0]

**CO :- 3**

**Blooms Taxonomy :- Apply**

**(Q4) Attempt any two.** [10.0]

(a) Draw and explain Resource record format of DNS. [5.0]

**CO :- 4**

**Blooms Taxonomy :- Understand**

(b) Give difference between FTP and TFTP. [5.0]

**CO :- 4**

**Blooms Taxonomy :- Understand**

(c) Draw DHCP packet format. Explain first 7 fields of DHCP packet format. [5.0]

**CO :- 4**

**Blooms Taxonomy :- Understand**

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