

Total No. of Question : [4]

Registration No. :

--	--	--	--	--	--	--	--	--

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
