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DEPARTMENT OF ECE

ANSWER KEY SUBMISSION

Date of Exam & Session	[illegible]	Category of Exam	[illegible]
Course Name	COMPUTER COMMUNICATION	Course Code	18CSS202J
Name of the Faculty submitting	[illegible]	Date of submission of Answer Key	[illegible]
Department to which the Faculty belongs to	ECE	Total Marks	50

Part A - MCQ Questions (50 × 1 = 50)

1. b) Three
2. b) 1500 bytes
3. d) All of these
4. c) Distance between the routing
5. b) PPP
6. a) Frame is
7. c) Both LCP and NCP
8. b) The remainder
9. b) Efficient MAC protocol for classic ethernet LANs
10. b) burst error
11. c) Dijkstra's algorithm
12. d) Routing information protocol
13. a) K-Values

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Date of Exam & Session	03.06.2022	Category of Exam	CLA2
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14. a) 224.0.0.5

15. c) RIP V2

16. b) Link state packet

17. a) feasible successor

18. a) split Horizon

19. c) 179

20. b) As (Autonomous system)

Part B

21 a) sliding window protocol (4 marks)

(i) To increase efficiency of stop and wait

(ii) Sender can transmit several frames before needing an acknowledgement

(iii) sliding windows are imaginary boxes at both sender and receiver side.

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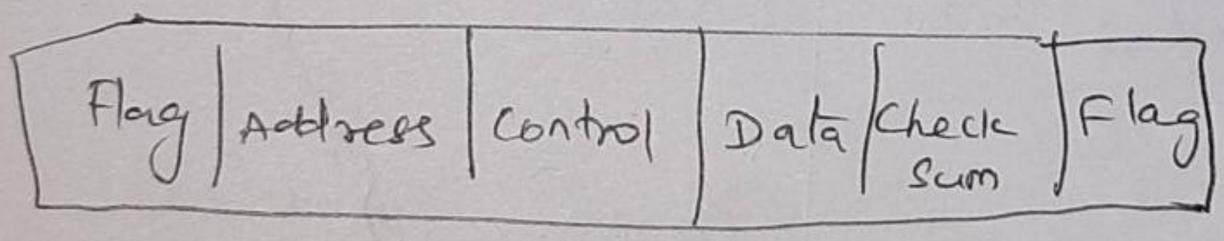
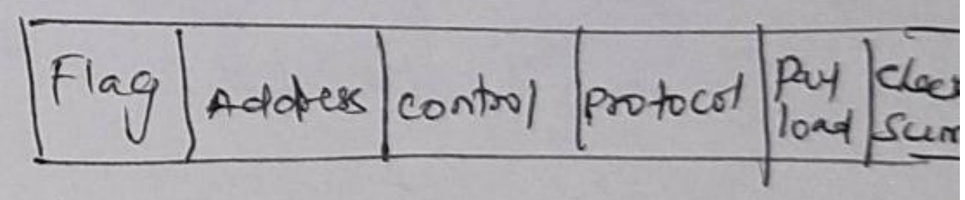
21. b) Compare HDLC and PPP Protocol (10)

HDLC Protocol	PPP protocol
1) Bit oriented protocol (High level Data link)	Byte oriented protocol (Point to point)
2) HDLC is implemented by Point to point Configuration and Multipoint Configuration	Point to point Configuration
3) Frame Format 	Frame format for PPP 
(4) HDCC works at layer 2 (Data link layer)	PPP works at layer 3 (network layer)
(5) Dynamic addressing is not offered by HDLC	Dynamic addressing is offered.

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Difference between Go back n and selective repeat (6 marks)

Go back n	selective repeat
1. If the sent frames are find Suspected then all the frames are retransmitted from the lost packet to last packet.	Only those frames are retransmitted which are found suspected
2. Sender window size is N and Receiver window size is 1.	Sender and Receiver window size is N
3. less complex	more complex
4. efficiency is N/(1+2*a)	efficiency is N/(1+2*a)
5. Cumlative Acknowledgement	Indivisual acknowledgement

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22 a) CSMA/CD (10 marks)

Carrier sense multiple Access / collision Detection is one of in which different stations that follow this protocol agree on some terms and collision detection measures for effective transmission steps required for transmission of data

1 :- check if sender is ready
2 :- check of the transmission link is idle
3 :- Transmit data and check for collisions
4 :- if no collision then the sender completes data transmission or else wait.

22 b) Routing information Protocol (10 marks)

Characteristics

RIP 1	RIP 2
1) Sends update as broadcast	1) Sends Multicast update
2) Broadcast at 255.255.255.255	2) Multicast at 224.0.0.9
3) doesn't support updated messages	3) Supports authentication of RIPV2 messages

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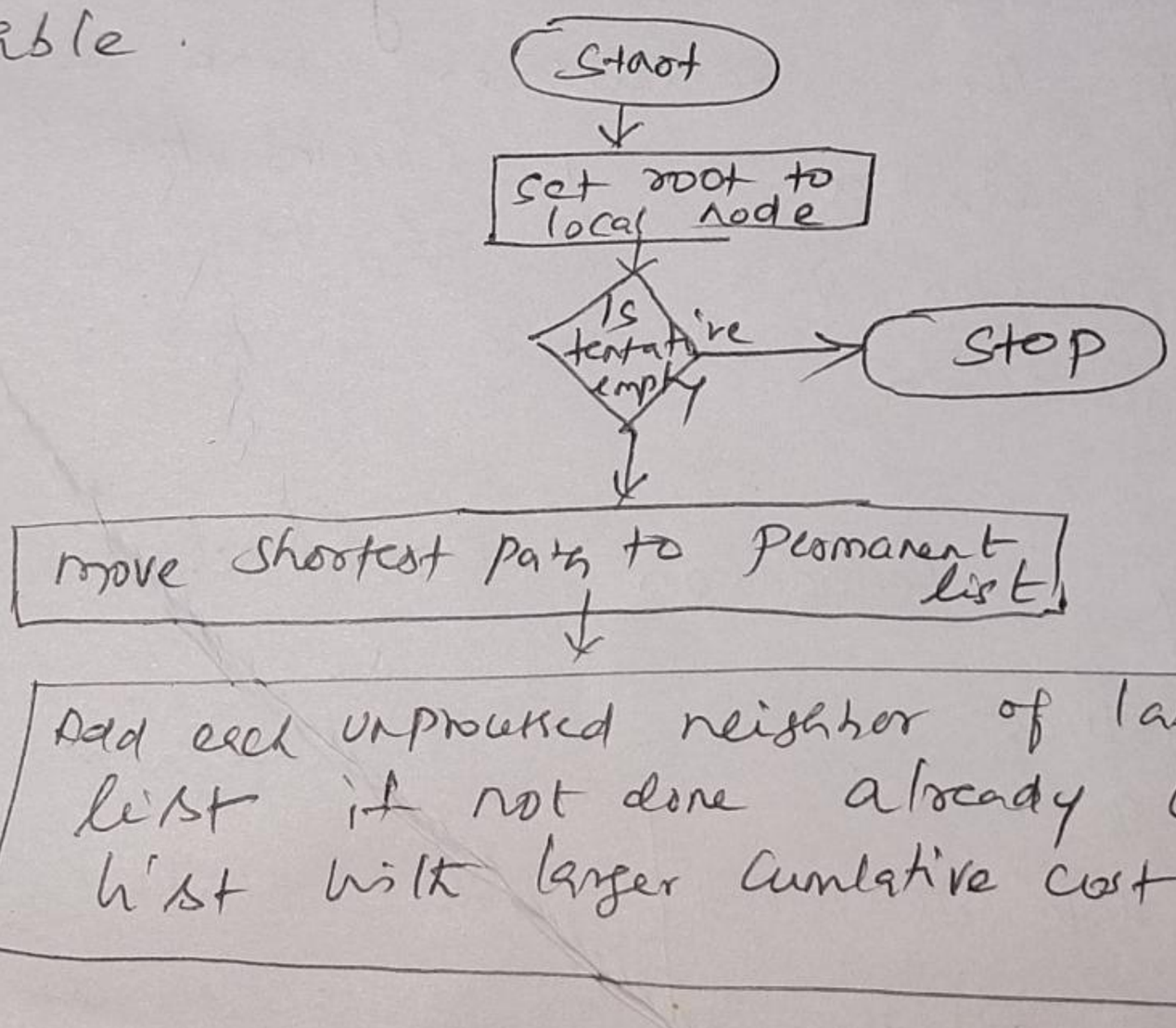
23 a) Dijkstra's algorithm for link state routing (5)

if each node in the domain has the entire topology including type and cost (metric) (the condition of the links up or down) - the node can use Dijkstra Algorithm to build routing table. (5)



23.b. OSPF Packets

1. Hello Packet
2. Database description packet
3. link state update
4. link state request Packet
5. link state Acknowledgment

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