



RV College of Engineering

Academic year 2023-2024 (EVEN Sem)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date	June 2024	Maximum Marks	50
Course Code	CY245AT	Duration	90 Min
Sem	IV Semester	CIE -1	
Computer Networks (Common to CS, IS, CD, AI & CY)			

SCHEME

Sl. No.	Question	Marks	BT	CO
1.	<p>1. 09:05:d0:b2:89:02 – 1 mark 2. HDLC, ethernet – 1 mark 3. ARP – Address resolution protocol – 1 mark 4. FCS – 1 mark 5. OSI layers - 6 marks</p>	10	4	2

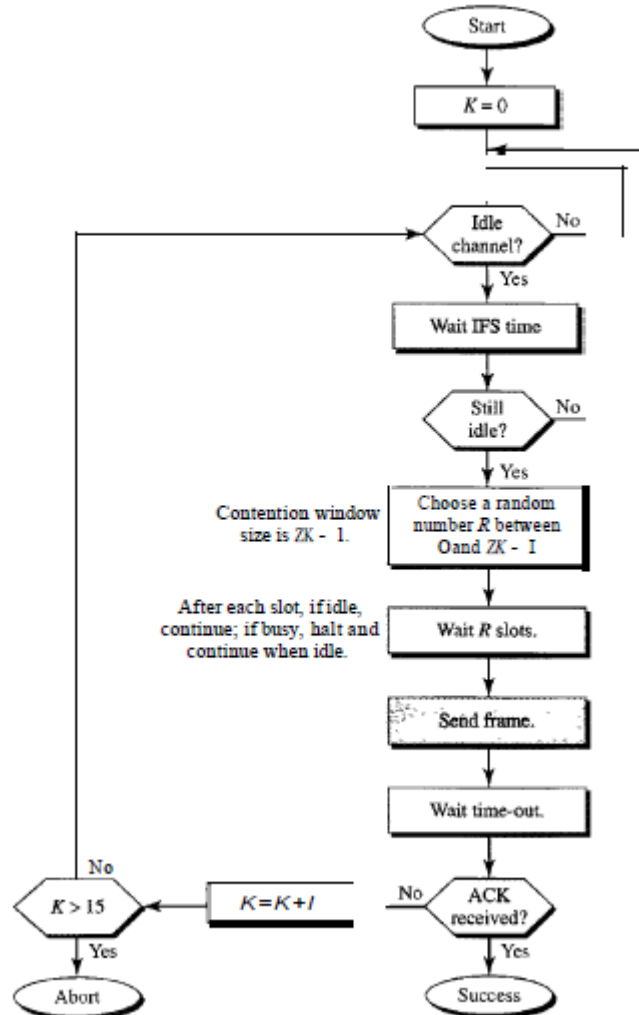


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2	<p>FSM – 4 marks</p> <p>Expl: 4 marks Disadv – 2 (Waste of time, bandwidth)</p>	10	3	1
3.	<p>A B ESC ESC C ESC FLAG ESC ESC ESC FLAG D – 4 marks</p> <p>Phases 6 marks</p>	10	4	5
4.	<p>CSMA is for collision detection and avoidance. CSMA/CA is for wireless – Disgram—3M Explanation-- 3 marks</p>	10	3	1



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Hidden terminal problem – 1 marks

Exposed terminal problem – 1 marks

5

Router-1's table later

Destination	Line
R-1	---
R-2	R-2
R-3	R-3
R-4	R-2
R-5	R-2
R-6	R-2

1 Store and forward explanation – 6 marks

2. Next best path – 2

3. No. Since it is connection less service, routing is done independent of

10

4

4



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	every packet arrival, based on the status of network, routing decision can be changed for every packet – 2 mark			
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BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks

Course Outcomes: After completing the course, the students will be able to	
CO1:	Apply the algorithms/techniques of routing and congestion control to solve problems related to Computer Networks.
CO2:	Analyse the services provided by various layers of TCP/IP model to build effective solutions
CO3:	Design sustainable networking solutions with societal and environmental concerns by engaging in Life long learning for emerging technology.
CO4:	Exhibit network configuration, protocol usage and performance evaluation in networks.
CO5:	Demonstrate the solutions using various algorithms/protocols available to address networking issues Using modern tools by exhibiting team work and effective communication

Marks Distribution	Particulars		CO1	CO2	CO3	CO4	CO5	L2	L3	L4	L5	L6
	Test	Max Marks	20	10		10	10		20	30	--	--