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What are the	What are the	What are the the effectives on?	What do yo standards?	mpt all section		Time: 3 hours]	АТА СОММ	1. VII) THEO		: 131702	GFollowing Paper ID a	Printed Pages : 4	
What are the three criteria neffective and efficient network?	advantages of dis	fundamental char ness of data comm	u mean by de	Attempt all sections. All sections can Write answer of each sections in short.	Part-A	[Max	DATA COMMUNICATION NETWORKS	(SEM. VII) THEORY EXAMINATION, 2015-16	B.Tech.	Roll No.	and Roll No. to Answer Book)	309	
What are the three criteria necessary for an effective and efficient network?	What are the advantages of distributed processing?	What are the fundamental characteristics on which the effectiveness of data communication depends on?	What do you mean by de jure and de facto standards?	Attempt all sections. All sections carry equal marks. Write answer of each sections in short. $(10 \times 2 = 20)$		[Maximum Marks: 100	ETWORKS	TION, 2015-16			be filled in your	EEC-702	

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Give the frame format of IEEE standards 802 for

Į.

What are the responsibilities of physical layer data

For n devices in a network, what is the number of cable links necessary for mesh, ring, and bus and star networks?

What is the purpose of the timer at the sender site in systems using ARQ?

Give data transfer modes of HDLC?

9

protocols.

Section-B

How TCP diffwer from the sliding window

Attempt any five questions from this sections.

(5×10=50)

Explain and compare the performance of different line

Explain IPv4 and IPv6 Internet protocol.

Explain in short IEEE standards 802 for LAN

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coding scheme

Q5. Define and explain the various frame type in HDLC. Design a three stage 200 X 200 switch with K=4 and

g, How do we say collision detection is analog process? maximum efficiency of ALOHA is 1/e. Why do we prefer CSMA over ALOHA? Prove that

Q7. Discuss the various design issue involved in ATM Technology and also explain the different layers of ATM.

Q Write a short note on:

Message Integrity

(ii) Digital Signature

(iii) Cryptography

Explain the CRC error detection technique generator polynomial X4+X3+1 and data is 11100011

9

Section-C

Attempt any two questions.

(2×15=30)

Q10. What is the various design issues involved in the network suitable example. routing techniques? Explain link state routing with layer? What do you mean by intradomain and interdomain

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roll of each layer in OSI Model.

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Qiii Explain controlled access method and Discuss CSMA/
an CA random access method.

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