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Pa	per Code & Roll No. to be	filled in your Answer Book
earli	Roll No.	What is no privaged differ
ØF.	B. Tech. II	I year (V Sem.)
cos-	Odd Semester	r Examination-2015
	COMPUTE	R NETWORKS
Time: 3 Hours]		[Maximum Marks:10
		Unit I
Answer Any Four		(4x5=20
1.	Which OSI layer perform s the following activities:-	
	(i) Error detection and	correction.
	(ii) Routing.	i) Go-Haok-Niprotopol.
	(iii) Responsibility for o	delivery between adjacent nodes.
	(iv) Reliable process to	process data transportation.
105	(v) Framing	nave: Any Iwo
2.	How much minimum bandwidth is required to digitally transmit	
	a anolog stream which is encoding?	generated at 50 Khz after Mancheste
3.	Define a switch. List the three conventional switching methods	

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- Define topology & explain the advantages and disadvantages of bus, star and ring topology.
- What is the principal difference between connectionless communication and connection - oriented communication.

UNIT - 2

b. Tech. III year (

Answer Any Four

(x5=20)

(4x5=20)

Time of Hours

ADSWEE ARY FOUR

(iii) Responsibility for d

- What is static and dynamic channel allocation.
- How is line coding implemented in FDDI?
- Discuss the sliding window protocol in detail.
- Compare and explain the pure and slotted ALOHA system.
- Differentiate between 802.3, 802.4 and 802.5 IEEE standard.
 - Go-Back-N protocol.
 - Sliding window protocol.

(iv) Reliable process (E TINU data transportation.

Answer Any Two

UCS-502/1860

(2x10=20)

 Explain the distance vector routing protocol with hte help of an example. Also dicuss the major problem encountered in distance vector: count to infinity problem.

Define a switch List the three conventional switching methods.

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- Describe the powerful congestion control algorithm used in data communication network to minimize loss of data.
- 3. (i) A class B network on the internet has a subnet mask of 255.255.240.0. What is the maximum number of hosts per subnet?
 - (ii) Discuss the functioning of RARP(Reverse Address Resolution Protocol).

UNIT-4

Answer Any Two

(2x10=20)

- Explain about the three hand shake protocol for connection establishment in TCP.
- (i) What is TCP? Connection termination in TCP is symmetric, whereas connection establishment is not. Why?
 - (ii) How does the transport layer ensure that the complete message arrives at the destination and in the proper order?
- The following is the dump of a TCP header in hexadecimal format:
 05320017 00000001 00000000 500207FF 00000000
 - i) What is the sequence number?
 - ii) What is the destination port number?
 - iii) What is the acknowledgement number?
 - iv) What is window size?

TCS-502/1860

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Answer Any Two

(2x10=20)

Explain how SMTP can handle transfer of videos and images?
 Also explain the advantages of IMAP 4 over POP 3 mail access protocols.

Hypolatin about the flower frame another protect

- 2. Write short notes on:
 - i) DNS
 - ii) SNMP
 - iii) XML

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Explain about e-mail architecture and services..

problem (2) The molecule restance (2) The left !!

Flow closes the transport layer ensure than the complete attessed errives in the destination and in the proper order?

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The followings with distingest a FCI beader in hexadecimal format

95320012 00000001 00000000 500207FF 00000000

while is the sequence mamber?

When is window size?

Winding the dinament port marrier?

What is the acknowledgement number?

(vi