No.	of	Prin	ted	Pages	:	3
	-			- ~5	•	_

CS-68

00320

BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination December, 2010

CS-68: COMPUTER NETWORKS

Time: 3 hours Maximum Marks: 60

Note: Question 1 is compulsory. Answer any two from the rest.

- 1. (a) Write the name of OSI layer(s) is responsible 5 for each of the following:
 - Framing.
 - Data encoding.
 - Data encryption.
 - Routing.
 - Process-to-process communication.
 - (b) Match the following to network devices:
 - Translates one MAC protocol to another.
 - Amplify the signal.
 - Used to perform Bridges functions as well as point to point dedicated connections.

incoming connections with different outgoing connection. Modulation/demodulation. Why is Quality of service (Q.S) required in (c) 2 network communication? (d) Explain the operation of Go Back N with 5 the help of a diagram. (e) List any three differences between hub and 3 switch. (f) Differentiate between virtual circuit and 5 datagram subnet. (g) Differentiate among LAN, MAN and WAN 5 in terms of, topology and Technology used by each network. 2. (a) Draw the ATM protocol model and describe 5 the functions performed by each layer. (b) Compare between token Bus, and token 5 Ring protocols. (c) Differentiate between OSI Reference model 5 and TCP/IP model. 3. (a) Briefly describe the use of each field of TCP 7 header. (b) Differentiate between connection oriented 4 and connectionless services.

Used

to

interconnect

various

	(c)	Write the advantages of small and fixed size cells.	4		
4. Di	Diffe	Differentiate between the followings :			
	(a)	Router and gateway.			
	(b)	Packet and cell switching.			
	(c)	Upward and Downward multiplexing.			
5.	(a) .	What is DNS? What type of naming scheme is used in DNS? Explain with examples.	4		
	(b)	Describe the characteristics of broad band coaxial cable.	5		
	(c)	Explain Open Shortest Path First (OSPF) routing protocol.	6		