03000CS306052102

Reg No.:_

Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERS

Sixth Semester B. Tech Degree Regular and Supplementary Examination July 2

Course Code: CS306 Course Name: COMPUTER NETWORKS

Max. Marks: 100

Duration: 3 Hours

(4)

PART A

		Answer all questions, each carries 3 marks.	Marks
ř		Describe any three applications of Computer Networks.	(3)
2		Differentiate asynchronous response and asynchronous balanced mode of	(3)
		operations in HDLC.	
3		Write the functions of presentation and session layer of OSI reference model.	(3)
4		Describe the frame format for IEEE 802.3 standard in detail.	(3)
		PART B Answer any two full questions, each carries 9 marks.	
5	a)	Explain TCP/IP reference model with the help of a diagram.	(5)
	b)	Write any three disadvantages of using computer networks.	(4)
6	a)	Illustrate the action of token bus and explain its frame format.	(6)
	b)	Differentiate bridges and switches.	(3)
7	a)	Explain the application layer of OSI reference model in detail with examples of	(4)
		protocols.	
	b)	Write notes on ALOHA, CSMA and CSMA/CA.	(5)
		PART C Answer all questions, each carries 3 marks.	
8		Describe the static routing algorithm flooding.	(3)
9		Define router and routing. Explain any two functions of network layer.	(3)
10		Explain the three types of implementations of internetworking.	(3)
11		Explain any three closed loop congestion control techniques.	(3)
		PART D	
		Answer any two full questions, each carries 9 marks.	
12	a)	Explain distance vector routing algorithm with an example.	(5)

b) Illustrate subnetting with an example.

03000CS306052102

13	a)	Demonstrate token bucket algorithm with a diagram.	(6)
	b)	Write notes on QoS in networks.	(3)
14	a)	Discuss OSPF with an example.	(4)
	b)	Elaborate RIP and explain its features.	(5)
		PART E	
		Answer any four full questions, each carries 10 marks.	
15	a)	Explain IPV6 with frame format.	(5)
1	b)	Describe the operation of IGMP in detail.	(5)
16	a)	Differentiate IPV4 and IPV6.	(5)
×	b).	Explain RARP and ICMP.	(5)
17	a)	Explain in detail about www with real scenario examples.	(7)
	b)	Define fully qualified and partially qualified domain name.	(3)
18		Explain ICMP and ICMPv6 in detail with advantages and disadvantages.	(10)
19	a)	Describe SNMP in detail with a diagram.	(6)
	b)	Discuss the working of electronic mail system.	(4)
20	a)	Define the role of UDP in Internet protocol suite.	(5)
	b)	Describe the format of a TCP segment with the help of a diagram.	(5)
		· · · · · · · · · · · · · · · · · · ·	