Reg No.: Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 2019

Course Code: IT405

Course Name: Internetworking with TCP/IP

Max. Marks: 100 Duration: 3 Hours

		PART A	
		Answer any two full questions, each carries 15 marks.	Mark
1	a)	How does IPv6 differ from IPv4?	(2)
	b)	What is proxy ARP? What are its advantages?	(5)
	c)	Explain the unified IP forwarding algorithm	(8)
2	a)	What is a loopback address? What is the use of loopback address?	(3)
	b)	How does IPv6 handle fragmentation of datagrams?	(4)
	c)	What is ICMP? What are the purposes of using ICMP? Why do the designers	(8)
		restrict ICMP to communicate only with the original source?	
3	a)	What is ZigBee?	(3)
	b)	What is network MTU? What is the minimum network MTU required to send an	(4)
		IPv4 datagram that contains at least one octet of data?	
	c)	What is a protocol port? How is port number assigned using dynamic binding?	(8)
		What are the advantages and disadvantages of using protocol ports instead of	
		process identifiers to specify the destination within a machine?	
		PART B	
		Answer any two full questions, each carries 15 marks.	
4	a)	Explain the three-way handshake mechanism used to establish a TCP connection	(5)
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	b)	How does poison reverse help to solve the slow convergence problem?	(3)
	c)	What is IGMP? Explain IGMP group membership state transitions	(7)
5	a)	What is out of band data? How does TCP handle out of band data?	(4)
	b)	What are the features of OSPF protocol?	(4)
	c)	What is MPLS? How can an MPLS label accompany a datagram across a	(7)
		conventional network?	
6	a)	What is BGP? Explain the characteristics of BGP?	(7)

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Pages:2

(3)

(10)

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What are the functionalities provided by version 1.1 openflow switches? Explain

b) How does a home agent know the current location of a mobile host?

them in detail