Total No. of Questions :10]

SEAT No. :

P2615

[5153] - 591

T.E. (Information Technology) COMPUTER NETWORK TECHNOLOGY (2012 Pattern) (Semester - I) (End-Sem.)

Time : 2¹/₂Hours]

[Max. Marks : 70

[Total No. of Pages :2

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right indicate full marks.
- 3) Your answers will be valued as a whole.
- 4) Assume suitable data if necessary.
- *Q1)* a) Differentiate among circuit switching, packet switching and message switching with one example. [6]
 - b) Explain various transport layer services. [4]

OR

- Q2) a) What is socket? Explain various client and server socket primitives. [6]
 - b) Write a short note on Quality of service. Parameters in Transport layer.[4]
- Q3) a) A company is granted a site address 201.70.64.0. The company needs six subnets. Design the subnets. [6]
 - b) Lists the areas of network management and explain the necessity of any three. [4]

OR

- Q4) a) What is DNS? What is server hierarchy? Explain domain name resolution process. [6]
 - b) Explain in detail how TCP provides flow control. [4]

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Q5) a)	Explain the basic architecture of WLAN and discuss various component in it. [10	
b)	Compare: Bluetooth and wireless LAN. [8	}]
OR		
Q6) a)	Explain Bluetooth features and architecture with suitable diagram. [10)]
b)	Explain frame format of 802.16. [8	}]
Q7) a)	Explain following terms w.r.t. WSN: [8	8]
	i) Data aggregation.	
	ii) Data diffusion.	
	iii) Data dissemination.	
	iv) Multicast.	
b)	What are different design issues of MAC protocol for WSN? [8	}]
	OR	
Q8) a)	List different routing protocols used by WSN. Explain any one in detail.[8	}]
b)	Explain Set up phase and steady state phase of LEACH protocol. [8	}]
Q9) a)	Explain the tasks of address management in WSN. [8	8]
b)	Describe DSDV Routing protocols. [8	}]
OR		
<i>Q10)</i> Write short note on (any two): [16]		
a)	Internet of Things (IoT).	
b)	Software Defined Networking (SDN).	
c)	BYOD.	

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