Reg No.:_____ Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

EIGHTH SEMESTER B.TECH DEGREE EXAMINATION(S), OCTOBER 2019

Course Code: EE468

Course Name: COMPUTER NETWORKS

Max. Marks: 100 Duration: 3 Hours

PART A

Answer all questions, each carries 5 marks. Marks

1		What is a computer network? Explain any 4 applications of computer networks.	(5)
2		Explain the working principle of Bluetooth.	(5)
3		Compare Virtual Circuit networks and Datagram networks.	(5)
4		What are the different services provided by transport layer?	(5)
5		List and explain any 5 performance issues of transport layer.	(5)
6		Explain the format of a UDP datagram.	(5)
7		What is MIME?	(5)
8		What is the need of a DNS protocol?	(5)

PART B

Answer any two full questions, each carries 10 marks.

9		Explain in detail the ISO/OSI reference model.	(10)
10	a)	What is meant by carrier sense multiple access?	(4)
	b)	List and explain the different persistence methods used in CSMA.	(6)
11	a)	Explain the different categories of computer networks based on scale.	(5)
	b)	Explain the standard Ethernet frame format with diagrams.	(5)

PART C

Answer any two full questions, each carries 10 marks.

12	a)	Why is congestion control required in networking?	(2)
	b)	Explain different methods for achieving congestion control.	(8)
13		Explain connection establishment protocol in transport layer with suitable diagrams.	(10)
14	a)	Differentiate between adaptive and non adaptive routing algorithms.	(5)
	b)	Explain the addressing scheme employed in transport layer.	(5)

PART D

Answer any two full questions, each carries 10 marks.

15		Draw and explain the TCP segment format.	(10)
16	a)	What is electronic mail?	(4)
	b)	Explain the working of SMTP protocol.	(6)
17	a)	Write the different steps to be carried out while performing a remote procedure call (RPC).	(5)
	b)	Explain WWW in detail.	(5)

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