Reg No.:	Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Eighth semester B.Tech degree examinations, September 2020

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 are the uses of computer networks? (5) 2 Differentiate between connection Oriented Service and Connectionless service. (5) Give examples on each. 3 What is optimality principle? Explain. (5) 4 Differentiate between Ports and Sockets. (5) 5 What is jitter in computer network? How is it controlled? (5) 6 Draw and explain UDP segment format. (5) 7 What is MIME format of email? (5) 8 What are the main components of email? (5) **PART B** Answer any two full questions, each carries 10 marks. 9 Explain the following Transmission technology with examples (10)T. **Broadcast Network** II. Point-to-point network 10 Explain in detail **OSI** and **TCP/IP** reference models in detail. (10)11 Draw and explain **IEEE 802.3** & **IEEE 802.11** frame format in detail. (10)PART C Answer any two full questions, each carries 10 marks. Illustrate how Datagram subnet is implemented. 12 a) (6) Differentiate between Port and Socket. b) (4) 13 Explain Dijkstra shortest path routing algorithm with a proper example. (10)14 Illustrate connection is established and Connection release protocol of (10)Transport Layer.

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PART D

Answer any two full questions, each carries 10 marks.

a)	Draw and explain TCP segment format.	(8)
b)	Enlist the internet application which runs on TCP and UDP.	
	Illustrate how TCP connection is established, data transfer and connection	(10)
	release procedure is done.	
	Explain with proper example how DNS protocol works.	(10)
		Illustrate how TCP connection is established, data transfer and connection release procedure is done.
