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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

Course Code: EE468

Course Name: Computer Networks Max. Marks: 100 **Duration: 3 Hours PART A** Marks Answer all questions, each carries 5 marks. 1 What are the design issues to be considered while deciding the layers of a (5) network? 2 Explain with diagrams the working of ALOHA protocol. (5) 3 What is count to infinity problem in Distance Vector Routing? (5) 4 Enlist the different transport layer service primitives. (5) 5 Compare TCP and UDP. (5) 6 Write a short note on Remote Procedure Call (RPC). (5) 7 What are the main elements of an email system? (5) 8 What is a URL? What are its components? (5) PART B Answer any two full questions, each carries 10 marks. 9 Explain in detail the TCP/IP model. (10)10 Explain the working of IEEE 802.11 wireless LAN with suitable diagrams. (10)11 'Process to Process delivery' is the duty of transport layer. Justify this statement. (5) b) What are the assumptions to be considered for dynamic channel allocation? (5) **PART C** Answer any two full questions, each carries 10 marks. 12 Explain Dijkstra's shortest path routing algorithm with a proper example. (10)13 a) How is connection establishment performed in transport layer? (5) b) How is a connection released? (5) 14 a) Explain flooding algorithm. (5) b) Explain the need of multiplexing in transport Layer. (5)

PART D

Answer any two full questions, each carries 10 marks.

15 a) Draw and explain UDP datagram format. (8) b) Enlist any 2 internet applications which run on UDP. (2) 16 Explain in detail DNS Namespace and hierarchy. (10)17 Describe in detail the sliding window protocol implemented in TCP. a) (5) b) Define the following terms: i) WebPages Hyperlink ii) (5) iii) Browser

iv)

v)

Hypertext

URL