R15 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Code No: 127FN B. Tech IV Year I Semester Examinations, November/December - 2018 MOBILE COMPUTING (Computer Science and Engineering) Max. Marks: 75 Time: 3 Hour Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. question carries 10 marks and may have a, b, c as sub questions. PART-A (25 Marks) [2] What is CSHSD? [3] What are mobiles devices and list the hardware limitations of them? 1.a) Describe shortly on "hidden and exposed terminals scenario" in MAC? [2] b) [3] c) What is DHCP? d) What are the advantages of Mobile TCP? [3] Why traditional TCP is not suitable in mobile computing. e) [2] f) What is skewed disk model? [3] g) What is SYNCML? [2] h) List the properties of AODV. [3] i) State the scenario of Linux for mobile devices. j) PART-B (50 Marks) Define mobile computing and state the novel applications of mobile computing? [5+5]2.a)Draw and explain the mobile computing architecture. b) Describe the following GSM concepts 3. a) Protocols [5+5]b) Handover Briefly write about SDMA, FDMA, TDMA, CSMA and Wireless LAN. [10] 4. Explain the following Mobile IP Network layer concepts. 5. a) Tunneling and Encapsulation [5+5]b) Route Optimization. Describe about Indirect TCP and Snooping TCP of Mobile Transport layer. [10] Explain the concept of "Client server computing for mobile computing and adaption" in 7. detail.

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