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Explain about a) E-mail

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, August - 2017 COMPUTER NETWORKS

Time: 3 Hours Max. Marks: 60 **Note:** This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions. PART - A  $5 \times 4$  Marks = 20 What is the use of data link layer? 1.a) [4] Explain about pure ALOHA and slotted ALOHA. [4] b) What is store and forward packet switching? Explain. c) [4] Draw the diagram of IPv4 header. d) [4] Write short notes on UDP and its header. e) [4] PART - B  $5 \times 8$  Marks = 40 2. Explain in detail about OSI Reference model with a neat diagram. [8] 3.a) Explain about sliding window protocol. Write short notes on evolution of internet. b) [4+4]Discuss about collision free protocols. 4. [8] OR 5. Explain about a) Classic Ethernet physical layer. b) Classic Ethernet MAC sub layer protocol. [4+4]6.a) What is a virtual circuit network? Explain. Discuss about count to infinity problem. b) [4+4]OR 7. Explain about a) Distributed Bellman-Ford routing algorithm. b) Admission control. [4+4]8. Explain about a) Tunneling b) Internetwork routing. [4+4]OR 9. Discuss about various IP Addresses. [8]

b) DNS.

OR

Explain about TCP sliding window protocol.