

Question Paper

Exam Date & Time: 29-Nov-2018 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES

FIRST SEMESTER MASTER OF ENGINEERING - ME (EMBEDDED AND WIRELESS TECHNOLOGY)

Advanced Network Protocols [EWT 615]

Marks: 100

Duration: 180 mins.

END SEMESTER DEGREE EXAMINATION NOVEMBER 2018

Answer all the questions.

- 1) Explain the responsibilities of data link and transport layers of OSI reference model with suitable diagrams (10)
- 2) Explain the Border Gateway Protocol (BGP) attributes in detail. (10)
- 3) Explain the features of IPv6. Also explain the Neighbor Discovery Protocol (10)
- 4) Explain the Reverse Path Forwarding (RPF) and Reverse Path Broadcasting (RPB) in multicast routing protocol. (10)
- 5) Explain UDP Header format in detail. (10)
- 6) Describe the SMTP Protocol. (10)
- 7) What is indirect TCP? Give the reasons for the development of I-TCP? Explain with neat diagram about the functions of I-TCP. (10)
- 8) Explain the following Demand Assigned Multiple Access reservation algorithms: (10)
 - (a). Explicit Reservation (Reservation-ALOHA)
 - (b). Implicit Reservation (PRMA)
 - (c). Reservation-TDMA
- 9) Why handover is to be performed? Explain different handover scenarios with suitable diagram. (10)
- 10)
 - (a). Explain about Cell splitting. (10)
 - (b). A metropolitan area of 1000 square km is to be covered by cells with a radius of 2km. How many cell

sites would be required? (Assume hexagonal cells)

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