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Total Number of Pages : 01

B.Tech.
PEEC4304

6th Semester Back Examination 2017-18
COMPUTER NETWORK AND DATA COMMUNICATION
BRANCH : AEIE, BIOMED, ECE, EIE, ETC, IEE
Time : 3 Hours
Max Marks : 70
Q.CODE : C563

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.
Attempt all parts of a question at a place

- Q1 Answer the following questions : (2 x 10)**
- a) What are the five important components of data communications?
 - b) Differentiate between ring vs star topology.
 - c) Mention the functionality of network layer.
 - d) What are the various error correction methods are available?
 - e) What are the functions of MAC?
 - f) Define IP Address.
 - g) What are the types of multiplexing?
 - h) What are the two categories of QOS attributes?
 - i) What is the function of SMTP?
 - j) Give the format of HTTP request message.
- Q2 a) List the Classification of network in detail according to the area covered. Also explain each classification of network in detail. (5)**
- b) Compare the performance of TCP/IP and ISO/OSI reference model. (5)**
- Q3 a) Explain error control mechanism with suitable diagram. (5)**
- b) Give Comparison among Circuit switching, Packet switching and Message Switching. (5)**
- Q4 a) Explain IP addressing method. (5)**
- b) Write short notes about Switch,Bridge ,Repeaters, Routers and Gateways. (5)**
- Q5 a) What is pure ALOHA and slotted ALOHA? Consider the delay of both at low load. Which one is less? Explain your answer. (5)**
- b) Explain the functionality of transport layer. (5)**
- Q6 a) What is Domain Name System? Describe in details the Resource Records and Name server for the Domain Name System. (5)**
- b) Answer the following questions. (I) RSA algorithm (II) DES Algorithm. (5)**
- Q7 What is Cryptography? List various Ciphers and Explain any four in Detail. (10)**
- Q8 Write short answer on any TWO : (5 x 2)**
- a) Guided VS Unguided Media
 - b) Dynamic Routing Algorithm.
 - c) TCP VS UDP
 - d) RSVP.