

MGKVP University Question Paper
B.C.A. Examination, 2017
Fifth Semester
Third Paper
(Computer Networks)
MGKVPonline.com

Time : Three Hours

Maximum Marks : 75

Note : Attempt any five questions. All questions carry equal marks.

1. (a) What is the difference between Analog and Digital data communication? 7
- (b) Explain the utility of the following: 8
 1. Modem
 2. A/D Converter
 3. D/A Converter
 4. ISDN
2. What is the source of different type of errors that may crop up during data transmission? Explain the meaning of "error detecting codes" and "error correcting codes". 15
3. What is the difference between connectionless and connection oriented services? Why are both required in TCP/IP? 15
4. How is IP addressing carried out? Explain SNMP and E-Mail system. 15
5. (a) Draw the layer diagram of TCP/IP protocol suite and explain it. 8
- (b) Discuss various LAN topologies with diagram. 7
6. (a) What is the function of the Network layer? 7
- (b) Briefly explain and distinguish between circuit switching, packet switching and message switching. 8
7. (a) How is router based Networking done? 8
- (b) What are ports? Why do we need them? List some of the well known ports. 7
8. What are the protocols that are followed in the Data Link Layer? Explain with examples. 15
9. Write short notes on : 5+5+5
 - (a) Simplex and Half Duplex Channels
 - (b) Applications of the Sessions layer
 - (c) Congestion Control
10. (a) What is Well-known addressing in Transport protocols? 7
- (b) Explain the function of CCR (Commitment), Concurrency and recovery) service element in OSI application layer 8