

B.E. Computer Science & Engineering (Model Curriculum) Semester-VII

BE101CS - TCP/IP and Internet

P. Pages : 1

Time : Three Hours



GUG/S/25/14231

Max. Marks : 80

Notes :

1. All questions carry equal marks.
2. Illustrate your answers wherever necessary with the help of neat sketches.
3. All questions are compulsory.

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|------------|----|---|----------|
| 1. | a) | Write short note on- | 8 |
| | | 1) DHCP | |
| | | 2) DNS | |
| | b) | What is TCP/IP Model? Explain the functions and protocols of each layer? Compare it with OSI Model. | 8 |
| | | OR | |
| 2. | a) | Explain Classless Inter-Domain routing concept in detail. | 8 |
| | b) | What is IP Addressing? How subnet addressing is performed. | 8 |
| 3. | a) | List the types of IGMP messages and its formats. | 8 |
| | b) | Describe any one Intra-domain routing protocol with proper packet format. | 8 |
| | | OR | |
| 4. | a) | What is Router? Explain the functionality of routers. | 8 |
| | b) | What is multicast routing? Explain MOSPF in detail with proper packet format. | 8 |
| 5. | a) | Discuss the Go-Back-N Protocol in detail. | 8 |
| | b) | Explain various fields of TCP Segment format. | 8 |
| | | OR | |
| 6. | a) | Compare between- | 8 |
| | | i) TCP and UDP | |
| | | ii) IPv4 and IPv6 | |
| | b) | Why TCP is said to be three way handshake protocol. Justify with example. | 8 |
| 7. | a) | Explain the web browser architecture. | 8 |
| | b) | Describe the Email representation and transfer in detail. | 8 |
| | | OR | |
| 8. | a) | Explain client server paradigm in detail with suitable example. | 8 |
| | b) | Describe the concept of DNS system. | 8 |
| 9. | a) | Write note on- | 8 |
| | | i) Internet Radio | |
| | | ii) Streaming Audio | |
| | b) | What is VOIP? Compare two protocol H.323 & SIP. | 8 |
| | | OR | |
| 10. | a) | Explain RTP packet format. | 8 |
| | b) | Write different characteristics of H-323. | 8 |
