| T. 4 | 1 NT | | \neg |
|-------------|--------------|--|-------------|
| | | o. of Questions : 8] SEAT No. : | لِ |
| P1005 | | 5 [5870] - 1068 [Total No. of Pages : | : 2 |
| | | T.E. (Electronic & Telecommunication) | |
| | | COMPUTER NETWORKS | |
| | | (2019 Pattern) (Semester - I) (304185 (D) (Elective-I) | |
| | | [Max. Marks : 7 | 70 |
| | исн 1) | tions to the candidates: Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8. | |
| | <i>2) 3)</i> | Neat diagrams must be drawn whenver necessary. | |
| | 3) | Assume suitable data, if necessary. | |
| | | | |
| Q1) | a) | Explain the various performance parameters of network layer. | 6] |
| | b) | Explain the services provided by Network Layer. | 6] |
| | c) | Compare datagram switching and virtual circuit switching | 6] |
| | | ORO S: | |
| <i>Q2</i>) | ٥) | Explain error reporting messages, informational messages, neighbor | 111 |
| <i>Q2)</i> | aj | discovery messages and group membership messages related to ICMPv | |
| | | | 6] |
| | b) | Explain the network id and host id. | 6] (|
| | c) | What is the difference between classless addressing and classf | Ó iúi |
| | | | 6] |
| | | 26.1 | |
| | | | |
| Q3) | a) | Explain the unicast routing and multicast routing protocol | 8] |
| 2 / | | | |
| | b) | | 9] |
| | | OR OR | |
| Q 4) | a) | What is routing? Explain the link state routing algorithm | 8] |
| | b) | Explain inter-domain and intra-domain routing. | 9] |
| | | | |

| Explain TCP Connection establishment, TCP data transfer and connection termination. | TCP [9] |
|--|---|
| What are the duties of Transport Layer? List the services provide Transport Layer to upper layers. OR | ed by [9] |
| Waht is congestion control? Explain the leaky bucket algorithm suitable diagram. | with [9] |
| Draw TCR header and explain function of each field. | [9] |
| Explain the DNS in detail. | [8] |
| Explain the architecture of E-mail. | [9] |
| OR | |
| \.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\. | [8] |
| Explain BOOTP and DHCP Protocol. | [9] |
| Resident to the state of the st | 86.7.7.8. |
| | What are the duties of Transport Layer? List the services provided Transport Layer to upper layers. OR Waht is congestion control? Explain the leaky bucket algorithm suitable diagram. Draw TCP header and explain function of each field. Explain the DNS in detail. Explain the architecture of E-mail. OR Explain the telnet protocol and FTP Protocol with diagram. Explain BOOTP and DHCP Protocol. |