| Total No. of Questions: 10] | SEAT No.: |
|-----------------------------|-------------------------|
| P2468 | [Total No. of Pages : 2 |

[5253]-191

T.E. (**I.T.**)

COMPUTER NETWORK TECHNOLOGY (2012 Pattern) (End Semester)

| | | (2012 Pattern) (End Semester) | |
|--------------------|-------|--|--------|
| Time: 2½ Hours] [M | | Hours] [Max. Marks | s : 70 |
| Instru | ıctio | ns to the candidates: | |
| j | 1) | Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10. | |
| 2 | 2) | Neat diagrams must be drawn wherever necessary. | |
| Ĵ | 3) | Figures to the right indicate full marks. | |
| 4 | 4) | Your answer will be valued as a whole. | |
| 3 | 5) | Assume suitable data jf necessary. | |
| <i>Q1</i>) a | a) | Explain Distance Vector routing algorithm with suitable example. | [6] |
| ł | b) | Explain request and response messages in HTTP. | [4] |
| | | OR | |
| Q2) a | a) | Draw and explain TCP header format. | [6] |
| ł | b) | Explain IP fragmentation. | [4] |
| | | | |
| Q 3) a | a) | Draw and explain TCP state transition diagram. | [6] |
| 1 | b) | What is supernetting? Explain reason to perform subnetting. | [4] |
| | | OR | |
| Q4) a | a) | How web pages are made dynamic using CGI. | [6] |
| ł | b) | Explain Border Gateway protocol with message format. | [4] |

| Q 5) | a) | Explain CSMA/CA in detail. | [8] |
|-------------|-------------|---|-------------------|
| | b) | Differentiate between IEEE 802.11 and 1EEE 802.16 | [8] |
| | | OR | |
| Q6) | a) | Explain MAC layer mechanism 1EEE 802.11, | [8] |
| | b) | Explain architecture of WLAN with diagram. | [8] |
| Q7) | a) | Explain Piconet and Scatternet architecture in Bluetooth. | [8] |
| | b) | Length of SIFS period must be shorter than DIFS period in IEEE 802 specification why? | .11 [8] |
| | | OR | |
| Q8) | a) | Draw and explain sensor node architecture. | [8] |
| | b) | Explain working of STEM and its types. | [8] |
| Q9) | a) | Explain any two routing protocols in MANET. [1 | 10] |
| | b) | Explain operating environment constraint in WSN. | [8] |
| | | OR | |
| Q10 |) a) | List various techniques for minimizing wastage of energy in S-MA Explain any three in detail. | AC. 10] |
| | b) | Write short note on (Any Two): | [8] |
| | | i) Wi-Fi offloads. | |
| | | ii) Software defined Network. | |
| | | iii) Web of things. | |

* * *