Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

G:\logo and QP Template\logo 3 Feb 2018 final.tif

**End Semester Examination – Nov/Dec – 2018**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **14EC2041** | **Duration :** | **3hrs** |
| **Sub. Name :** | **HIGH SPEED NETWORKS** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Explain the call control procedure in frame relay networks. | CO1 | 10 |
|  | b. | With neat sketches, describe the LAPF frame format of frame relay in detail. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Give details on the various ATM service categories. | CO1 | 10 |
| b. | Explain about AAL 1 and AAL ¾ in detail. | CO1 | 10 |
|  |  |  |  |  |
| 3. |  | Explain the IEEE802.11 standard with reference to the basic architecture, protocol architecture and MAC frame format with neat sketches. | CO2 | 20 |
| (OR) | | | | |
| 4. |  | Give details about high speed LAN standards with reference to the basic architecture and frame formats with neat sketches. | CO2 | 20 |
|  |  |  |  |  |
| 5. |  | Elaborate in detail about the various congestion control techniques with necessary diagrams. | CO3 | 20 |
| (OR) | | | | |
| 6. |  | Discuss about the types of queuing models with neat sketches and elaborate on the associated mathematical relations and definitions. | CO3 | 20 |
|  |  |  |  |  |
| 7. | a. | Explain the methodologies of TCP timer management in detail. | CO3 | 10 |
| b. | Discuss in detail about ABR traffic management. | CO3 | 10 |
| (OR) | | | | |
| 8. | a. | Elucidate about the congestion control techniques involved in ATM networks. | CO3 | 10 |
| b. | Explain in detail about ABR capacity allocation. | CO3 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Summarize about RSVP reservation styles and protocol mechanisms. | CO3 | 20 |