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**GIET UNIVERSITY, GUNUPUR – 765022**

M. Tech (First Semester – Regular) Examinations, June – 2021

**MPCEC1010 – Advanced Communication Networks****(ECE)**

Time: 2 hrs

Maximum: 50 Marks

**PART – A****(2 x 10 = 20 Marks)**Q1. Answer **ALL** questions

- State the overview of Internet.
- Define: Congestion control in internet.
- What are the throughput issues in internet?
- What is resource reservation in internet?
- What do you mean by delay bounds in packet switched networks?
- Enumerate the requirements for packet scheduling.
- Define: IP Address.
- What is grid of tries algorithm?
- What do you mean by measurement based admission control?
- What is IPV6?

**PART – B****(6 x 5 = 30 Marks)**Answer ANY FIVE questions**Marks**

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|---|------------|
| 2. Discuss about the analysis of TCP congestion control.                        | <b>(6)</b> |
| 3. State the properties of leaky bucket algorithm and explain the same.         | <b>(6)</b> |
| 4. Discuss in detail about packet scheduling algorithm.                         | <b>(6)</b> |
| 5. Explain about packet classification algorithm.                               | <b>(6)</b> |
| 6. Describe the concept of effective bandwidth.                                 | <b>(6)</b> |
| 7. What are all the traffic engineering issues in MPLS? Explain this in detail. | <b>(6)</b> |
| 8. Write short notes on IP Scheduling and IP tunnelling.                        | <b>(6)</b> |

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