

Code: EC6T5

**III B.Tech-II Semester–Regular/Supplementary Examinations–March 2018**

**COMPUTER NETWORKS  
(ELECTRONICS & COMMUNICATION ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1. a) Explain different types of networks.
- b) What is packet switching?
- c) Define router.
- d) What is the need of framing?
- e) Explain choke packets in congestion control.
- f) What is flooding? Discuss the drawbacks of flooding.
- g) List the functions of transport layer.
- h) What is piggybacking? Explain the advantages of it.
- i) Explain stop and wait protocol.
- j) What is DNS.
- k) Explain the need of uniform resource locator in WWW.

## PART – B

Answer any *THREE* questions. All questions carry equal marks.  
3 x 16 = 48 M

2. a) What are the different layers of OSI? Explain briefly the functions of each layer. 8 M
- b) Differentiate LAN, MAN and WAN network topologies. 8 M
3. a) Explain in detail about the sliding window protocol using Selective Repeat. 8 M
- b) Explain briefly about CSMA/CD. 8 M
4. a) Compare and contrast a virtual circuit and packet-switched network. 8 M
- b) Explain IPV4 header format. 8 M
5. a) Discuss the differences between TCP and UDP. 8 M
- b) Explain TCP congestion control. 8 M
6. a) Explain Domain Naming System. 8 M
- b) Illustrate the use of MIME extension. 8 M