Code: EC6T5

III B.Tech-II Semester–Regular/Supplementary Examinations–March 2019

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) Why multipoint connection better than a point-to-point connection?
- b) Explain the role of computer networks in home applications.
- c) Differentiate between coaxial cable and fiber cable.
- d) What is the need for Framming?
- e) What are the advantages of Wireless LAN over Wired LAN?
- f) How do routers differentiate the incoming unicast, multicast and broadcast IP packets?
- g) Find the class of each address
 - i) 10.23.120.8 ii) 252.3.12.111
- h) What are the primitives of Transport services?
- i) What are the advantages of UDP?
- j) What is the purpose of DNS?
- k) Write the use of Hyper Text Transfer Protocol (HTTP).

PART - B

Answer any *THREE* questions. All questions carry equal marks. $3 \ge 16 = 48 \text{ M}$

- 2. a) Explain the architecture of internet with a neat sketch of its big picture.8 M
 - b) Write about classification of networks based on network hardware. 8 M
- 3. a) Find CRC for P = 110011 and M = 1100011? 8 M
 - b) Explain different protocols for noisy channels. 8 M
- 4. a) Explain in detail about hierarchical routing. 8 M
 - (b) Compare Virtual Circuits with Datagram Subnets. 8 M
- 5. a) Draw TCP state transition diagram and describe each of it. 10 M
 - b) Differentiate between TCP and UDP. 6 M
- 6. a) What is DNS? Explain DNS name space in detail. 8 M
 - b) Describe how SMTP protocol is used in e-mail applications.8 M

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