

Exam.Code:0935
Sub. Code: 6673

2063
B.E. (Electrical and Electronics Engineering)
Fifth Semester
PC-EE-505: Computer Networks

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) What are OSI and TCP/IP models?
- b) List out the types of wireless transmission media.
- c) List two advantages of having international standards for network protocols.
- d) What are the functions of network layer?
- e) List the types of error detection methods. (5x2)

UNIT - I

- II. a) What are the advantages of fiber optics over copper as a transmission medium? Is there any downside of using fiber optics over copper?
b) Differentiate between OSI and TCP /IP reference models with diagrams. (2x5)
- III. a) Discuss the various services offered by data link layer.
b) Discuss in detail about the packet-switched networks. (2x5)
- IV. a) Differentiate between Connection oriented and Connectionless Services.
b) What is the need of Framing? Explain byte stuffing and bit stuffing for framing. (2x5)

UNIT - II

- V. a) Explain with suitable example the working of a virtual circuit network.
b) Explain how a distance vector routing algorithm works. (2x5)

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(2)

- VI. a) How does UDP differ from TCP? List the applications of UDP.
b) Define FTP. Discuss in brief about FTP. (2x5)
- VII. a) Discuss about HTML.
b) Explain dynamic web pages. (2x5)

x-x-x