

MCSE/MSE-105**M.E./M.Tech. I Semester**

Examination, June 2017

Advanced Computer Networking*Time : Three Hours**Maximum Marks : 70*

- Note:** i) Answer any five questions, each question carries equal marks.
ii) Assume suitable data if missing.

1. a) Compare the various LAN standards which are specified by IEEE? 7
b) What is the need of internetworking devices? Explain it by an example. 7
2. a) What are the different transmission medias used in networking? Compare them on their pros and cons? 7
b) Why should each name server know the IP address of its parent instead of the domain name of its parent? Justify it by your answer. 7
3. a) What is the basic principle that is involved in building up TCP/IP? Also, discuss its protocol architecture. 7
b) Describe the working principle of SMTP with Neat diagram. 7

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4. Discuss the following:

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- a) DHCP
- b) HTTP
- c) NFS
- d) FTP

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5. a) What is Bit Stuffing? If the bit stream 011110111110111110 is subjected to bit stuffing. What is the output string? 7
b) Differentiate between adaptive and non-adaptive routing with the description of at least one technique of each types. 7
6. a) What are the services provided by ATM? Discuss in detail with architecture? 7
b) What are the different type of VPN and discuss the design issue of VPN? 7
7. a) How host management is done in virtual private network? Explain with an example. 7
b) Draw the structure of WAP and explain its working with example. 7
8. Write short notes on: 14
a) Hyperlink
b) Token bus
c) P-LAN
d) CIDR

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