B. Tech.

(SEM. VIII) EXAMINATION, 2006-07
MULTIMEDIA COMMUNICATIONS

Time : 3 Hours] [Total Marks : 100

Notes : (i) Attempt all questions
(ii) All questions carry equal marks.
(iii) In case of numerical prob. assume data wherever not provided.

1. Attempt any four parts of the following : 5×4=20

(a) Give the communication requirement that must be met to qualify as Multimedia Communication System.

(b) Describe Video Telephony with the help of block diagram.

(c) Explain the different signals used in digital TV transmission.

(d) Explain Electronic Mail and Electronic Commerce.

(e) Explain Interactive TV and Web TV.

(f) Explain the term Multimedia. Give the main properties of Multimedia System.

VB-3055] 1 [Contd...
2 Attempt any **four** parts of the following: $5 \times 4 = 20$
(a) Give the standards for Multimedia Communications.
(b) Explain the principle of TIFF and its application.
(c) Explain what is MPEG.
(d) With the help of diagram, explain each layer in OSI model.
(e) Explain the representation of Multimedia Information.
(f) Explain Enterprise Network.

3 Attempt any **two** parts of the following: $10 \times 2 = 20$
(a) Explain the Discrete Multi Tone (DMT) modulation method used with ADSL models.
(b) Give the principle of ATM Network.
(c) What is the difference between hub and Switch? What is repeater hub and ethernet switch?

4 Attempt any **two** parts of the following: $10 \times 2 = 20$
(a) With the help of diagram explain architecture of Internet.
(b) Give the description of Entertainment Networks and ATM Networks.
(c) Explain the meaning of congestion window. How congestion control is done?

VB-3055] 2 [Contd...]
Attempt any four parts of the following: $5 \times 4 = 20$

(a) Explain World Wide Web, HTTP and HTML.
(b) Explain signalling protocols associated with Internet Telephony.
(c) Explain Transport Protocols.
(d) Give the applications of Internet.
(e) Give communication protocols for network to meet the requirement of Multimedia application.
(f) Differentiate between LAN and WAN.