B. Tech.
(Sem. VIII) Examination, 2006-07
MULTIMEDIA COMMUNICATIONS

Time: 3 Hours] [Total Marks: 100

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

1. Attempt any four parts of the following: 5x4=20
   (a) What are requirements of Communication System associated with multimedia applications.
   (b) Explain clearly, how the transfer of Data, its rate are specified in multimedia system.
   (c) Give the principle of Interactive TV and Web TV.
   (d) Explain with the help of block diagram the concept of Teleconferencing.
   (e) Differentiate between Electronic mail and electronic commerce.
   (f) Define the BER probability of channel.

V-3055] 1 [Contd...
2 Attempt any four parts of the following: 5×4=20
(a) Explain how the Representation of Multimedia Information is made.
(b) What is Data Compression. Explain lossy and lossless data compression.
(c) Give the standards of JPEG? Explain.
(d) With the help of diagram explain each layer in TCP/IP reference model.
(e) Give the Data stream characteristics for continuous media.
(f) Explain Information units.

3 Attempt any two parts of the following: 10×2=20
(a) Explain “IP address”. Describe in detail.
(b) Give principle of operation of ATM switch and ATM network.
(c) What are High Speed modems and explain Entertainment Networks.

4 Attempt any two parts of the following: 10×2=20
(a) Differentiate between UDP and TCP.
(b) Explain the principle development of B ISDN.
(c) Define the broadcast TV network with the help of block diagram.

5 Attempt any four parts of the following: 5×4=20
(a) Explain hyperlinks, URLs and browser.
(b) Describe the role of ASN.1 in distributed application; explain operation of IDEA scheme.
(c) Describe Application Support functions.
(d) Explain the difference between Internet and Intranet.
(e) Describe the principle of Congestion Control.
(f) Explain the elements of Transport Protocol.