⑤

(3 Hours) [**Total Marks : 100**

N.B. (1) Question No. 01 is compulsory.

(2) Attempt Any Four questions from the remaining Five Questions.

(3) Assume suitable data wherever required.

1. a) With neat and labeled diagram explain design steps for multimedia systems. 10

   b) Draw and explain workstation based architecture for multimedia system, Also specify hardware and software expected at each layer (if any) considering an example. 10

2. a) Write a detailed note on storage & retrieval technologies. 10

   b) What is an Authoring System? Explain it's type with an example 10

3. a) Explain Chroma sub Sampling. 05

   b) Explain elements of multimedia systems. 05

   c) Explain in detail MIDI communication protocol . 10

4. a) Explain MPEG-1 compression in detail. 10

   b) Explain Virtual Reality design considerations. 10

5. a) Explain Audio compression in detail. 10

   b) Explain Streaming Protocols. 10

6. a) Explain Level 0 through Level 5 of RAID functionality. 10

   b) You are appointed as a consultant to set up Multimedia laboratory in Engineering Institute. 10

   Give the specifications of various components, configuration, connectivity , software etc.

   along with the assumption.

7. Write short notes on following. (Any two) 20

   a) Digital Camera

   b) Distributed Multimedia databases.

   c) Knowledge based multimedia system.

   d) Multimedia Animation.

QP-Con. 11901-15.