

Roll No. ....

**22156**

**M. E. 1st Semester (Electronics &  
Communication Engg.)  
Examination – January, 2012**

**MULTIMEDIA SYSTEMS**

**Paper : MEEC-514**

***Time : Three hours ]***

***[ Maximum Marks : 100***

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt any *five* questions. All questions carry equal marks.

1. (a) What are Multimedia Appliances ? Explain designer's view of multimedia appliances. 10
- (b) What is synchronization & orchestration ? Compare them. 10

2. (a) Explain the architecture of an audio signal processing library by giving examples. 10
- (b) Explain the process of speech recognition and generation in detail. 10
3. (a) Compare & contrast Interpolative techniques and Predictive techniques of video compression by giving examples. 10
- (b) Explain MPEG Video compression standard in detail. 10
4. What are the objectives of JPEG compression standard ? Explain JPEG architecture Further, explain JPEG-DCT encoding and quantization with help of a diagram. 20
5. (a) What are the goals and characteristics of multimedia system services. 10
- (b) What is New OS support ? Explain various categories of New OS supports for continuous Media Applications ? 10

6. (a) Explain Architecture for network based multimedia services with help of diagram. 10
- (b) What is OMFI ? Explain the OMFI composition class hierarchy with help of a diagram. 10
7. (a) Explain various architectures for future multimedia telephony system. 10
- (b) Discuss various design considerations for web pages by giving examples. 10
8. Write short notes on : 20
- (a) Web Page Browsers.
- (b) Communication Protocol.
- (c) Hyper Applications.
- (d) Client Control of Continuous Media.