

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
B.Tech. (Semester VIII), M.Tech. (Semester II), Test 3 (June 2016)

Course Code: 10M11CI214
Course Name: Multimedia Systems
Course Credit: 3

Max. Marks: 35
Max. Time: 2:00 Hrs

Attempt all questions. Carrying of mobile phones will be treated as the case of unfair means.

Ques 1. List at least five factors which contributed to the growth of multimedia technology. Discuss the educational multimedia features used for instructional purposes. (5)

Ques 2. How does streaming live audio/video differ from streaming stored audio/video? Also, discuss the requirements services and protocols of a multimedia communication? (4)

Ques 3. Explain multimedia file systems with suitable example? Also discuss in what way to support continuous media in file system. (4)

Ques 4. Define intra and inter object synchronization. Also discuss the reference model for multimedia synchronization. (4)

Ques 5. Discuss the structure of ATM cell and ATM architecture in brief? Also, Compare and contrast ATM reference model with OSI reference model. (4)

Ques 6. Write the algorithmic steps for gamma correction of colour image? Perform the gamma correction of the image

2	4	6	8
3	5	7	9
4	6	8	10
12	14	15	13

Where the value of gamma to be 0.5. Also, discuss the effect the different value of gamma on visual quality of the image. (4)

Ques7. Write the short notes on following (10)

- (a) Video on demand (VoD)
- (b) Resource Reservation Protocol (RSVP)
- (c) Multimedia Compression
- (d) QoS Negotiation