

Dr Hemraj Sami

Roll No.: _____

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -III EXAMINATION- May 2019
M.Tech II Semester

COURSE CODE: 10M11CI214

MAX. MARKS: 35

COURSE NAME: Multimedia systems

COURSE CREDITS: 3

MAX. TIME: 2 Hrs

Note: Attempt all the questions. Carrying of mobile phone during examinations will be treated as case of unfair means.

Que.1: [3 Marks; CO6] Define synchronization. Why it is required in Multimedia Systems? Also, explain different relationships created between independent objects of Multimedia system.

Que.2: a) [2 Marks; CO6] Explain Intra-object synchronization and Inter- object synchronization.

b) [2 Marks; CO6] Explain Time-dependent logical data units? Also, explain classification of logical data units.

Que.3: a) [2 Marks; CO6] Explain the requirements of hard synchronization and soft synchronization.

b) [2 Marks; CO6] What is gap problem? Explain

Que.4: a) [2 Marks; CO7] What is resampling? Explain its various types.

b) [2 Marks; CO7] Explain Lip synchronization. What are its usages? Explain.

Que.5: a) [3 Marks; CO7] What are the requirements to pointer synchronous? Explain the evaluation of the pointer synchronization.

b) [3 Marks; CO7] Write and explain the two ways to synchronize the video and text, or video and picture.

Que.6: [3 Marks; CO7] Explain the following:

- i. Live synchronization and its variants
- ii. Synthetic synchronization

Que.7: [3 Marks; CO8] Explain the reference model for Multimedia Synchronization. Also write the various purposes of each layer in this model.

Que.8: a) [2 Marks; CO8] What is Interval-based specification? Explain in detail.

b) [2 Marks; CO8] What is Control-flow-based specification? Explain in detail.

Que.9: [2 Marks; CO8] What is Time-specific Petri Networks? Explain with an appropriate example.

Que.10: [2Marks; CO1] Explain the following terms:

- i. Granularity
- ii. Media scaling
- iii. Traffic shaping
- iv. Telecooperation