C 60549 (Pages : 2) Name.....

Reg. No.....

EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, APRIL 2014

CS 09 803 L15 – MULTIMEDIA

Time : Three Hours Maximum : 70 Marks

Part A

Answer **all** *questions.*

Short answer questions (one/two sentences) :

1. How can we achieve computer supported integration in multimedia systems?
2. Which messages do go to all devices in MIDI systems?
3. What is synchronization in multimedia systems?
4. Give an example for polymorphism in multimedia application.
5. What is the use of the virtual reality?

(5 × 2 = 10 marks)

Part B

Answer any **four** *questions.*

Analytical/Problem solving questions :

6. Explain how audio and video are used for multimedia?
7. Define MIDI. List its attributes. Compare and contrast the MIDI and digitized audio in a multimedia production.
8. With a neat diagram, explain the Interfacing components of a sound blaster card.
9. Identify the steps to be followed in designing an animation. Describe in detail about the various classification schemes of computer animation.
10. Explain the basic principles of digital photography and the various Image editing functionalities.
11. Discuss the process of video production in multimedia.

(4 × 5 = 20 marks)

Part C

Answer **all** *questions.*

Descriptive/Analytical/Problem solving questions :

12. (a) Describe the concepts, frameworks, issues and techniques in multimedia authoring.

Or

Turn over

(b) Discuss about the application and transport subsystems in multimedia communication systems.

13. (a) Explain in detail about the following :

(i) Characteristics of multimedia DBMS.

(ii) Video Conferencing.

Or

(b) Explain MPEG file format in detail for motion picture compression.

14. (a) Which compression technique explicitly considers the functionality of JPEG and H.261? Discuss in detail.

Or

(b) Discuss about the various authoring tools depending on the application design.

15. (a) Explain the group communication architecture with a diagram in detail. Include all its models.

Or

(b) How do you achieve synchronization in distributed environment? Briefly explain the steps involved in it.

(4 × 10 = 40 marks)