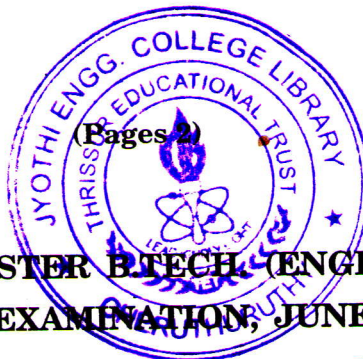


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Name.....

Reg. No.....

EIGHTH SEMESTER B.TECH (ENGINEERING)

DEGREE EXAMINATION, JUNE 2009

CS 2K 802—COMPUTER GRAPHICS AND MULTIMEDIA

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

- I. (a) Classify the applications of computer graphics.
(b) Prove that two successive 2D rotations are additive $R(\theta_1) R(\theta_2) = R(\theta_1 + \theta_2)$.
(c) Distinguish between time dependent anytime independent media.
(d) What are peculiarities that arise when using a WORM disk?
(e) List out applications of MIDI software.
(f) What are the various types of image transmission?
(g) Mention the properties of a Huffmann's tree.
(h) Differentiate between formatted and unformatted data.

(8 × 5 = 40 marks)

Part B

- II. (a) Describe how to perform point classification in primitive instancing, b - rep, spatial occupancy, enumeration and CSG.

Or

- (b) What is aliasing? Discuss techniques to eliminate aliasing.

(15 marks)

- III. (a) (i) How are continuous media data different from discrete data?

(6 marks)

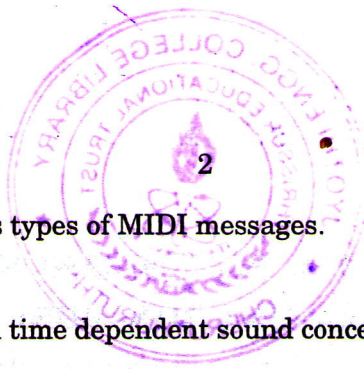
- (ii) Discuss in detail about CDROM extended architecture.

(9 marks)

Or

- (b) Explain in detail about session management architecture for a multimedia communication system.

Turn over



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IV. (a) (i) Describe the various types of MIDI messages.

(8 marks)

(ii) Write short notes on time dependent sound concentration.

(7 marks)

Or

(b) Explain the various steps involved in image recognition.

V. (a) (i) Discuss techniques for motion video encoding using DVI.

(8 marks)

(ii) Explain steps involved in a lossy sequential DCT based coding.

(7 marks)

Or

(b) Explain data types used for storing data in a multimedia database.

(4 × 15 = 60 marks)