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B.TECH.

THEORY EXAMINATION (SEM-IV) 2016-17 MULTIMEDIA AND ANIMATION

Time : 3 Hours

Max. Marks: 100 Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.

SECTION - A

1. Explain the following:

List out the Characteristics of Multimedia System. **(a)**

Roll No.

- A digital signal is always a degraded version of the original Analog signal. Explain. (b)
- The sampling frequency is 1.5 times the true frequency means, what is the alias (c) frequency?
- Mention some of the Major Applications where graphics can be used. (d)
- (e) Write notes on Tweened Animation.
- Why file or Data Compression is necessary for Multimedia Activities? **(f)**
- Write the difference between bitmap and vector drawn images. (g)
- State the basic principles of animation. (h)
- Write a short note on Characteristics of Sound. (i)
- Differentiate between Cell Animation and Path Animation. (j)

SECTION - B

2. Attempt any five parts of the following questions:

- Illustrate Various Compression Formats in detail. (a)
- List out the Steps in Creating a Movie Clip Symbol. (b)
- In relation to OCR-Software, Distinguish between Pattern Match and Feature (c) Extraction.
- Explain how compression is achieved using the GIF Standard. Is it lossy or lossless? (d)
- Elaborate the Various Phases of Multimedia Application Development in detail. (e)
- How does the Process of Raster Scanning create an Image on monitor? How can (f) interlacing be useful for displaying steady images on slower monitors?
- Explain briefly on any two 2D Animation Tools. (g)
- State the Procedure for Creating Classic Tween Motion along a Path. (h)

SECTION - C

Attempt any two parts of the following questions: 3

- Explain the various media that are normally incorporated in multimedia (i) presentation? Give examples of how information may be conveyed through each of these media components.
 - How is the DCT is different from the DFT? Which Transform is more efficient? (ii)
- Derive expression for the Transformation Matrix for rotating a Point around an 4 Arbitrary Line.
- How does motion cycling help to create compact animation sequences? Explain. 5

 $10 \ge 2 = 20$

 $5 \ge 10 = 50$

 $2 \times 15 = 30$