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**B.TECH.** 

# **THEORY EXAMINATION (SEM-IV) 2016-17**

# MULTIMEDIA AND ANIMATION

### Time : 3 Hours

*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)
- 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?
- **(d)** Mention some of the Major Applications where graphics can be used.
- Write notes on Tweened Animation. **(e)**
- (**f**) Why file or Data Compression is necessary for Multimedia Activities?
- Write the difference between bitmap and vector drawn images. **(g)**
- **(h)** State the basic principles of animation.
- Write a short note on Characteristics of Sound. (i)
- Differentiate between Cell Animation and Path Animation. (j)

# **SECTION – B**

#### Attempt any five parts of the following questions: 2.

- 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:

- Explain the various media that are normally incorporated in multimedia 3 (i) presentation? Give examples of how information may be conveyed through each of these media components.
  - (ii) How is the DCT is different from the DFT? Which Transform is more efficient?
- Derive expression for the Transformation Matrix for rotating a Point around an 4 Arbitrary Line.
- 5 How does motion cycling help to create compact animation sequences? Explain.

Max. Marks: 100

 $5 \ge 10 = 50$ 

 $10 \ge 2 = 20$ 

 $2 \ge 15 = 30$