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Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



II SEMESTER M.TECH (PRINTING AND MEDIA TECHNOLOGY)

END SEMESTER EXAMINATIONS, MAY 2016

SUBJECT: PROGRAMME ELECTIVE III

ADVANCED TECHNIQUES IN COMPUTER GRAPHICS [CSE 584]

REVISED CREDIT SYSTEM

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ANY FIVE FULL** questions.
- ❖ Missing data may be suitable assumed.

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| 1A. | What are colour models? Explain any two of them in detail. | 05 |
| 1B. | What is tweening? What is its significance in animation? | 03 |
| 1C. | Why do you use a DTD? Explain with an internal DTD to describe a message to be sent to the students regarding an examination to be held in the department. | 02 |
| 2A. | Explain any FIVE advantages of digital printing. | 05 |
| 2B. | Differentiate between ray tracing and radiosity techniques. | 03 |
| 2C. | What are web-servers? Specify three basic functions of web-servers. | 02 |
| 3A. | Explain the basic 3D modeling techniques with applications. | 05 |
| 3B. | Explain peculiar problems faced due to animation. | 03 |
| 3C. | Write html tags for the following in single html file : | 02 |
| i. | Display the web page having the background in blue and heading - name of the tourist place in RED color. | |
| ii. | Describe any two places of attraction within 2 – 3 paragraphs by specifying the content in different color, font and size. | |
| iii. | Display the details about the hotels in and around in the form of a table. | |
| iv. | Create a link to the image gallery. | |

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- 4A.** Briefly explain con-tones, half-tones and dithers. **05**
- 4B.** Specify the three different types of using style sheets with examples for each. **03**
- 4C.** Discuss any two rules of animation. **02**

- 5A.** What is an illumination model? Why is it used? Differentiate between ambient, diffuse and specular reflections. **05**
- 5B.** What are splines? Name some splines and their features. **03**
- 5C.** Differentiate between off-set printing and digital printing. **02**

- 6A.** Explain various shading models used in 3D modeling. **05**
- 6B.** Write XML code for a book store. **03**
- 6C.** List out differences between raster images and vector images. **02**