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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.

- 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**
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- 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**
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- 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**