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**B.E (Full time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2013
COMPUTER SCIENCE AND ENGINEERING**

SEVENTH SEMESTER

22

CS9041 – VISUALIZATION TECHNIQUES

REGULATIONS 2008

Time : 3 hours

Max Mark : 100

Answer ALL Questions

Part – A (10x2 = 20Marks)

1. What are the stages of visualization?
2. Define semiotics.
3. Differentiate non-computer visualization from computer visualization.
4. Give short note on abstraction in computer graphics.
5. What are the pros and cons of 3D visualization?
6. What do you mean by information retrieval in document space visualization?
7. Differentiate visual object from data object.
8. Give short note on rendering.
9. Compare abstraction versus realism.
10. What are the methods used to integrate spatial data with non spatial data?

Part – B (5x 16 = 80 Marks)

11. (i) Discuss the properties of sensory and arbitrary representation? Elaborate in detail. (8)
(ii) Explain in detail about Gibson's affordance theory. (8)
12. a (i) Discuss in detail the Fisheye views for 3D data. Detail the applications of fisheye views. (16)

(OR)

- b (i) Explain in detail about the non-linear magnification in computer visualization? (16)

13.a. With example, explain in detail various tree mapping techniques. (16)

(OR)

b. Discuss in detail about automating the design of graphical presentations of relational information. (16)

14. a.(i) Explain the different zoom techniques used for illustration purpose. (8)

(ii) Discuss the non photorealistic virtual environment. (8)

(OR)

b.(i) Explain in detail about the designing of pixel oriented visualization techniques. (8)

(ii) Detail interactive handling of images and text. (8)

15. a (i) Elaborate tactile mapping in detail with diagram. (8)

(ii) Explain in detail about synthetic holographic in detail. (8)

(OR)

b (i) What is Kohenan's feature map? How can it be constructed and used? Elaborate in detail. (8)

(ii) Discuss rendering gestural expressions. Bring out its pros and cons. (8)

All the Best
