JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
IV B.TECH II SEM–REGULAR/SUPPLEMENTARY EXAMINATIONS MAY - 2010
VIRTUAL REALITY
(COMPUTER SCIENCE & ENGINEERING)

Time: 3hours   Max.Marks:80

Answer any FIVE questions
All questions carry equal marks
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1. Explain in detail about the five classic components of a Virtual Reality system.
[16]

2. Discuss in detail about the functionality of ultrasonic trackers. [16]

3. What is a large-volume display device? Discuss in detail about different large-volume display devices. [16]

4. Briefly explain different stages of haptics rendering pipeline. [16]

5.a) What are the main stages in usability engineering? Explain in brief.
  b) Write about after effects of adaptation. [8+8]

6.a) What is orthopedic rehabilitation? What are its uses?
  b) Write about virtual colonoscopy procedure. [8+8]

7. Explain about adding a texture to a shape using Loader3D. [16]

8. Explain in brief about different aspects involved in creating a simple 3D sprite application. [16]

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