Code.No: R05420505

R05

SET-4

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.   Discuss the various implications of commercial VR technology.   [16]

2.   What are magnetic trackers? Compare and contrast AC and DC magnetic trackers.
                                                                                              [16]

3.   Explain in detail about any three forces feed back interfaces.   [16]

4.   Write short notes on behavior modeling.   [16]

5.a)   What differences exist between human factors study and usability engineering?
  b)   Explain the methodologies to be followed for usability evaluations.   [10+6]

6.a)   Explain in brief about single soldier simulators.
  b)   Write about psychological and cognitive rehabilitation.   [8+8]

7.a)   What is a scene graph? Discuss about scene graph in detail.
  b)   Explain about curve rotations using lathe3D.   [8+8]

8.a)   Compare and contrast between updating a 2D sprite and a 3D sprite.
  b)   Write and explain Java3D code for processing an animation operation.   [4+12]

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