Code.No: R05420505

R05

SET-3

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
- - -

1.   Discuss about various applications of Virtual Reality.   [16]

2.   Explain in detail about the working of Hybrid trackers.   [16]

3.a)   Describe the functioning of 3D audio chips. Make a drawing and explain.
  b)   Explain how speaker-based 3D audio systems work.   [8+8]

4.   What is physical modeling? Explain it in detail.   [16]

5.a)   Discuss the results of adaptation to sensory rearrangement.
  b)   Discuss the after effects of adaptation.   [8+8]

6.a)   Write about Orthopedic telehabilitation.
  b)   How does virtual colonoscopy differ from a real colonoscopy?   [8+8]

7.a)   How do you create a scene graph using Loader3D? Give example code.
  b)   Discuss in detail about rotating Lathe curves.   [8+8]

8.   Explain in detail about any four classes in Java 3D for creating 3D applications.
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