Code: R7420505

R7

B.Tech IV Year II Semester (R07) Advanced Supplementary Examinations, June 2012
VIRTUAL REALITY
(Computer Science and Engineering)

Time: 3 hours   Max Marks: 80

Answer any FIVE questions
All questions carry equal marks
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1   Explain in detail the five classic components of a VR system.

2   Describe the working of a any two input devices using which navigation/manipulation can be done in absolute coordinates.

3 (a) Mention any two devices used for sensing temperature in VR and explain how they work.
   (b) Discuss about the devices used for launching sound into space in VR.

4   With appropriate diagrams, explain in detail about texture mapping method.

5 (a) What is a testbed? Give a brief note on testbed evaluation methods of universal VR tasks.
   (b) Explain the following in case of VR human factors study.
        (i) Trials and sessions. (ii) Control study.

6 (a) What is orthopedic rehabilitation? What are its uses?
   (b) Write about virtual colonoscopy procedure.

7   Write short notes on the following:
   (a) Loading a model.
   (b) Loaderinfo3D.
   (c) Java 3D loader for games.

8   Describe the process of creating a particle system using points array in Java 3D.

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