Class/Sem: Final Year/VIII   Subject: Game Architecture and Programming

Date: 17.02.2014   Duration: 1 Hr.   Marks: 25

Q.1]: Write short note on (Any One).

   1. Symmetric and asymmetric interaction.   [05M]

   2. Hard and soft architecture.   [05M]

Q.2]: What are the phases in game development? State the process, people involved and the outcome of each phase   [10M]

Q.3]: State the design patterns that are commonly used in game design and explain any four   with example   [10M]

Class/Sem: Final Year/VIII   Subject: Information Storage Management and Disaster Recovery

Date: 17.02.2014   Duration: 1 Hr.   Marks: 25

Q.1]:   Write the fundamental laws governing Disk Performance.

Consider a disk I/O system in which an I/O request arrives at the rate of 80 IOPS. The disk service time is 6 ms.

  A]: Compute the following: Utilization of I/O controller, Total response time, Average queue size, and Total time spent by a request in a queue.

   B]: Compute the preceding parameter if the service time is halved.   [05M]

 Q.2]: Explain the need of RAID and different techniques used in RAID levels.   [10M]

 Q.3]: What is an information lifecycle? Explain it with the help of sales

order application.   [10M]

 Q.4]: Explain the components of intelligent storage system.   [10M]

Class/Sem: Final Year/VIII   Subject: Information Technology for Health Care

Date: 18.02.2014   Duration: 1 Hr.   Marks: 25

Q.1]: How to manage organization changes?   [05M]

Q.2]: How ethics can support to take IT decision.   [05M]

Q.3]: Adverse condition effecting in strategy planning process.   [05M]

Q.4]: Clarian healthcare system?   [05M]

Q.5]: Simple rules to guide the transformation?   [05M]

Saraswati College of Engineering, Kharghar

Information Technology Department
Academic Year 2013-14 (Even Sem)

Class/Sem: Final Year/VIII   Subject: Roboitcs & Machine Intelligence

Date: 18.02.2014   Duration: 1 Hr.   Marks: 25

Note: Q.1 is Compulsory & Solve any two from remaining.

Q.1]: Define all kinematics parameter with neat sketch.   [05M]

Q.2]:

A]: The coordinates of the point p on the body are given by $\{1,2,3\}^T$. Rotate the   [05M]
body about   the z-axis by 30° &then y-axis by 30° .find the new coordinates of the point
 P w.r.t The   fixed frame.

B]: Differentiate between soft and hard automation.   [05M]

Q.3]: Derived the arm matrix and arm equations for four axis SCARA robot.   [10M]

Q.4]: Find composite rotational matrix by rotating the tool about the fixed axis of F   [10M]
frame with yaw of $\Pi/3$ followed by a pitch of $-\Pi/2$ & finally roll of $\Pi/2$ radiance.
 If $[p]^M = \{0,0,0.5\}^T$. Find $[p]^F$ .draw the frame rotation.

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Saraswati College of Engineering, Kharghar
Information Technology Department
Academic Year 2013-14 (Even Sem)
<u>Unit Test-1</u>

Class/Sem: Final Year/VIII   Subject: Software project management

Date: 18.02.2014   Duration: 1Hr   Marks: 25

Q.1]: Explain information technology project methodology (ITPM)   [10M]

Q.2]: Explain PLC and SDLC   [10M]

Q.3]: Describe PMB Ok   [05M]

OR

Q.4]: Describe business case.   [05M]