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Reg. No.:	-		٠				

Question Paper Code: 20344

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Seventh Semester

Computer Science and Engineering

CS 6006 — GAME PROGRAMMING

(Regulations 2013)

Time: Three hours

Maximum: 100 marks

(4)

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. Define the term Shader.
- 2. List out the various representation schemes used in three dimensional objects.
- 3. What is Polling?
- 4. How do you avoid cache misses?
- 5. Draw the architecture of Game Application Layer.
- 6. What is Event in game logic?
- 7. Sketch the structure of 2D interactive games.
- 8. How do you know if DirectX is using hardware acceleration or software rendering?
- 9. Mention the importance of OpenGL in developing interactive games.
- 10. What is tile-based games?

PART B — $(5 \times 13 = 65 \text{ marks})$

11. (a) Examine the functionalities of stages evolved in the various shader models. (13)

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- (b) Predict how the following is useful in increasing the visual realism of the 3D scene:
 - (i) Texture Addressing Model
 - (ii) Texture Filtering (3)
 - (iii) Mipmapping (3)
 - (iv) Anisotropic Filtering. (3)

