Started on	Monday, 14 May 2018, 1:18 PM
State	Finished
Completed on	Monday, 14 May 2018, 1:47 PM
Time taken	28 mins 19 secs
Grade	9.75 out of 10.00 (98 %)

Question 1

In the context of OpenGL-4 programming, a shader is

Correct

Mark 1.00 out of 1.00

\sim	lect	Λn	Δ.
\mathcal{L}	-	OII	\

- a. A colour value output by the fragment processor.
- b. A light source.
- c. An illumination model.
- d. A program designed to run on a certain stage of a graphics processor.
 - ****
- e. A colour palette.

Correct

Marks for this submission: 1.00/1.00.

Question 2

Which one of the following is NOT a shader stage in the OpenGL-4 pipeline?

Correct

Mark 1.00 out of 1.00

Select one:

- a. Fragment Shader
- b. Geometry Shader
- c. Vertex Shader
- d. Tessellation Shader
- e. Depth Shader

Correct

Marks for this submission: 1.00/1.00.

Quiz 09 3 OpenGL Correct	⁻⁴ Which of these is the primary function of a vertex shader canterbury ac.nz/mod/quiz/review.p
Mark 1.00 out of	Select one: a. Texture storage b. Transformations and lighting c. Depth testing d. Primitive assembly e. Vertex culling
	Correct Marks for this submission: 1.00/1.00.
Question 4 Correct	All vertex shaders have a pre-defined output gl_Position. What does this output represent?
Mark 1.00 out of	Select one: a. The position of the current vertex in world coordinates. b. The position of the current vertex in clip coordinates. c. The position of the camera in world coordinates. d. The position of the current vertex in eye coordinates. e. The position of a light source in world coordinates. Correct
Question 5 Correct Mark 1.00 out of 1.00	Wertex shaders require matrices for transforming points and vectors. These matrices are often passed from the application to the shader. Which one of the following storage qualifiers is used here? Select one: a. Static b. Out c. Constant d. In e. Uniform ✓

Correct

Marks for this submission: 1.00/1.00.

🔘 d. A pixel-sized element or segment of a rasterized primitive. 🧹

e. A uniform variable that is passed from an application to a vertex shader.

Correct

Marks for this submission: 1.00/1.00.

Quiz 098 OpenGL-4 A vertex shader outputs a value for each vertex using an out variable. The same same in the same shader outputs a value for each vertex using an out variable. variable is declared inside the fragment shader using the storage qualifier "in". What would be the value obtained inside the fragment shader through this variable? Mark 1.00 out of 1.00 Select one: a. The first value output by the vertex shader. b. The sum of the vertex values. c. The average of the vertex values. d. The last value output by the vertex shader. \bigcirc e. The value interpolated across the primitive. \checkmark Correct Marks for this submission: 1.00/1.00. Ouestion 9 The following statement is included in a shader: Correct vec4 light = vec4(10.0, 20.0, 30.0, 1.0);Mark 1.00 out of Which one of the following vectors is produced by light.wxx? 1.00 Select one: a. vec4(1.0, 10.0, 10.0, 1.0) b. vec3(10.0*w, 20.0*x, 30.0*x) c. vec4(10.0*w, 20.0*x, 30.0*x, 1.0)

Correct

Marks for this submission: 1.00/1.00.

e. vec3(1.0, 10.0, 10.0)

d. vec3(w, x, x)

Correct

mat2 m = mat2(1.0, 4.0, -2.0, 5.0);

Mark 0.75 out of 1.00

What would be the value of the following expression?

m[1] + vec2(2.0)

Select one:

- a. vec4(3.0, 6.0, 0.0, 7.0)
- b. vec2(3.0, 6.0)
- c. vec2(0.0, 7.0) ✓
- d. vec2(3.0)
- e. vec2(6.0)

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.75/1.00.