

## Unit 4 - Week 2: Object Representation

Course outline
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### Assignment 2

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Due on 2020-09-30, 23:59 IST.**

1) Which among the following is not a subcategory of space partitioning technique? **1 point**

- a. Mesh representation
- b. Octrees
- c. BSP trees
- d. Constructive solid geometry

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a. Mesh representation

2) All other representations are converted to \_\_\_\_\_ representation at the end of the pipeline before the objects are rendered. **1 point**

- a. mesh
- b. BSP tree
- c. octree
- d. none of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a. mesh

3) To represent a blobby object a suitable combination of Gaussian density functions is used. The Gaussian density function is characterized by two parameters: height and \_\_\_\_\_ **1 point**

- a. length
- b. standard error
- c. standard deviation
- d. blobby factor

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
c. standard deviation

4) Sweep surface and surface of \_\_\_\_\_ are two sweep representation techniques used in computer graphics.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
(Type: String) revolution

**1 point**

5) We can represent a curve using a single parameter 'u'. **1 point**

- a. True
- b. False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a. True

6) Spline refers to \_\_\_\_\_ of several polynomials. **1 point**

- a. difference
- b. joining
- c. division
- d. multiplication

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
b. joining

7) Natural cubic spline are made up of pieces of \_\_\_\_\_ degree polynomial. **1 point**

- a. first
- b. second
- c. third
- d. fourth

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
c. third

8) Cubic Bezier curves are examples of approximating splines. **1 point**

- a. True
- b. False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a. True

9) There are two types of continuity conditions: parametric continuity and \_\_\_\_\_ continuity. (fill in the blank)

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
(Type: String) geometric

**1 point**

10) Natural cubic splines are examples of interpolating splines **1 point**

- a. True
- b. False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a. True