## Unit 5 - Week 3
### Assignment 3

#### Question 1:
Which of the following spatial operators will you use to resolve the following spatial query? (2 points)
- **Query**: Find the nearest 100-meters dryland area inside the current location.
- **Options**:
  1. Within
  2. Contains
  3. Intersects
  4. Touches

#### Question 2:
Which of the following data types will you use to represent a spatial data type? (2 points)
- **Data Types**:
  1. Integer
  2. Floating Point
  3. String
  4. Boolean

#### Question 3:
Which of the following are operators for topological relationships? (2 points)
- **Options**:
  1. Touches
  2. Within
  3. Crosses
  4. Overlaps

#### Question 4:
Which of the following operators will you use to resolve the following spatial query? (2 points)
- **Query**: Find all the polygons intersecting with the current location.
- **Options**:
  1. Intersects
  2. Touches
  3. Crosses
  4. Within

#### Question 5:
Consider the following two statements:
1. Statement A: Spatial data type is used to store spatial data.
2. Statement B: Non-spatial data type is used to store non-spatial data.

Which of the following are true for the above statements? (2 points)
- **Options**:
  1. True
  2. False

#### Question 6:
Which of the following operators will you use to resolve the following spatial query? (2 points)
- **Query**: Find the nearest city within 10 kilometers of the current location.
- **Options**:
  1. Within
  2. Contains
  3. Intersects
  4. Touches

#### Question 7:
Which of the following are true for the above statements? (2 points)
- **Options**:
  1. True
  2. False

#### Question 8:
Consider the following statements:
1. Statement A: Spatial data type is used to store spatial data.
2. Statement B: Non-spatial data type is used to store non-spatial data.
3. Statement C: Spatial data type is used to store both spatial and non-spatial data.

Which of the following are true for the above statements? (2 points)
- **Options**:
  1. True
  2. False