

**UNIVERSITY OF MUMBAI**  
**T.Y.B.Sc. INFORMATION TECHNOLOGY (Semester VI) (Practical) EXAMINATION**  
**FIRST HALF 2018**

**GEOGRAPHIC INFORMATION SYSTEMS**

Seat No: \_\_\_\_\_

**Max Marks: 50**

1.	Create a map of railway route of Borivli to Bandra including the buildings adjacent to rails. Use google maps to find the layers. There should be minimum five layers	<b>20</b>
2.	Create dataset for any two layers of the above	<b>20</b>
3.	Viva	<b>5</b>
4.	Journal	<b>5</b>

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**GEOGRAPHIC INFORMATION SYSTEMS**

Seat No: \_\_\_\_\_

**Max Marks: 50**

1.	Create a map of railway route of CST to Wadala including the buildings adjacent to rails. Use google maps to find the layers. There should be minimum five layers	<b>20</b>
2.	Create dataset for any two layers of the above	<b>20</b>
3.	Viva	<b>5</b>
4.	Journal	<b>5</b>

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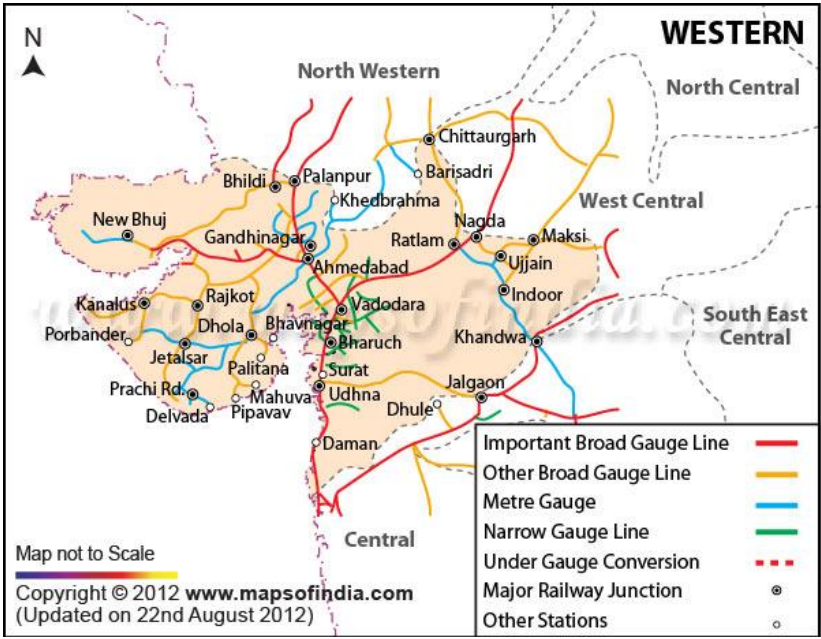
1	Create vector layers for your known area. And add the required data to demonstrate the following queries a) Queries using query builder b) Use of distance matrix	<b>40</b>
2	Viva	<b>5</b>
3	Journal	<b>5</b>

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**Max Marks: 50**

<b>1.</b>	<p>Create a map using print composer and include a legend, north arrow. Create the map for the following picture. In this picture, create only the following layers</p> <ol style="list-style-type: none"> <li>a) Broad gauge line</li> <li>b) Major railway junctions such as Ahmedabad, Baroda, Bharuch, Ratlam, Nagda, Palanpur, Jalgaon</li> </ol>	<b>40</b>
		
<b>2.</b>	<b>Viva</b>	<b>5</b>
<b>3.</b>	<b>Journal</b>	<b>5</b>

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**Max Marks: 50**

<b>1</b>	<p>Demonstrate the basic raster analysis and styling. Use population density grid data.</p>	<b>40</b>
<b>2</b>	<b>Viva</b>	<b>5</b>
<b>3</b>	<b>Journal</b>	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create minimum five vector layers with dataset	<b>25</b>
2	Fire queries using “disjoint”, “crosses”, “Touches”	<b>15</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create minimum five vector layers with dataset	<b>25</b>
2	Fire queries using “Contains”, “Crosses”, “Within”	<b>15</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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**Max Marks: 50**

1	Create minimum five vector layers with dataset	<b>25</b>
2	Fire queries using “Contains”, “Within”, “Touches”	<b>15</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create a raster layer using the Alaska image given.	<b>10</b>
2	Create a map using print composer by adding legend, north arrow, scale	<b>30</b>
2	Viva	<b>5</b>
3	Journal	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create vector data. (Add minimum 4 layers) a. Add point objects b. Line c. Polygons Also prepare appropriate database.	<b>30</b>
2	Demonstrate the use of analytical tools distance matrix, points in polygons.	<b>10</b>
2	Viva	<b>5</b>
3	Journal	<b>5</b>

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**GEOGRAPHIC INFORMATION SYSTEMS**

Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create vector data. (Add minimum 5 layers) Also prepare appropriate database.	<b>30</b>
2	Demonstrate the use of Basic statistics and Listing unique values.	<b>10</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create vector data. (Add minimum 5 layers) Also prepare appropriate database.	<b>20</b>
2	Do image registration of the map using MATLAB	<b>20</b>
2	Viva	<b>5</b>
3	Journal	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Assume you have to create a map that represents the railway track in Mumbai. Do the following for the same. Create vector data. (Add minimum 4 layers) a. Add point objects b. Line c. Polygons	<b>20</b>
2	Also prepare appropriate database. Fire at least five spatial queries.	<b>20</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create vector layers from the given shape files	<b>10</b>
2	Also prepare appropriate database. Fire at least five spatial queries.	<b>30</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create vector layers for the map from Vashi to Airoli rail route. Take the help of google maps for this. Add dataset to the layers.	<b>20</b>
2	Demonstrate the use of analytical tools line intersection, points in polygons.	<b>20</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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**GEOGRAPHIC INFORMATION SYSTEMS**

Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create vector layers of your own residential area taking the help from Google map.	<b>15</b>
2	Demonstrate all vector analysis functions for the dataset created for the above layers	<b>25</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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**GEOGRAPHIC INFORMATION SYSTEMS**

Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Create vector layers of your own residential area taking the help from Google map.	<b>20</b>
2	Perform network analysis	<b>20</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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**GEOGRAPHIC INFORMATION SYSTEMS**

Seat No: \_\_\_\_\_

**Max Marks: 50**

1	Assume you have to create a map that represents the roadways in your city. Do the following for the same. Create vector data. (Add minimum 4 layers) a. Add point objects b. Line c. Polygons Also prepare appropriate database	<b>20</b>
2	Fire all spatial queries	<b>20</b>
3	Viva	<b>5</b>
4	Journal	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1.	Create vector layers representing the following features: i) Railway Stations ii) Railway track iii) Create appropriate database for the given features	<b>20</b>
2.	Demonstrate the use of distance matrix tool find out the distance between the stations	<b>20</b>
3.	Journal	<b>5</b>
4.	Viva	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1.	Perform Terrain analysis of the given raster	<b>20</b>
2.	Perform image registration using MATLAB	<b>20</b>
3.	Journal	<b>5</b>
4.	Viva	<b>5</b>

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Seat No: \_\_\_\_\_

**Max Marks: 50**

1.	Create vector layers with points, lines and polygons (add minimum four layers) Also find basic statistics	<b>20</b>
2.	Perform vector data classifications on it	<b>20</b>
3.	Journal	<b>5</b>
4.	Viva	<b>5</b>

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**Max Marks: 50**

1.	Create railway track from BANDRA TO CST with the following features <ul style="list-style-type: none"><li>• Stations in between</li><li>• Water bodies closed to the track</li></ul>	<b>20</b>
2.	Fire any four spatial queries on it	<b>20</b>
3.	Journal	<b>5</b>
4.	Viva	<b>5</b>

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**Max Marks: 50**

1.	Create minimum four vector layers Also create a data model for the map.	<b>20</b>
2.	Fire any four spatial queries on it	<b>20</b>
3.	Journal	<b>5</b>
4.	Viva	<b>5</b>



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**Max Marks: 50**

1.	Create vector data with minimum four layers. Create an appropriate database	<b>20</b>
2.	Demonstrate the use of analysis tools points in polygon, distance matrix	<b>20</b>
3.	Journal	<b>5</b>
4.	Viva	<b>5</b>

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**Max Marks: 50**

1.	Perform raster analysis on the given file	<b>20</b>
2.	Demonstrate Zonal Statistics	<b>20</b>
3.	Journal	<b>5</b>
4.	Viva	<b>5</b>