

**Nirma University**  
University Elective Course  
Semester End Examination (IR), November - 2018  
B. Tech. in CL / CH / ME / EC, Semester - VII  
UEIA001 GIS and Remote Sensing

Roll /  
Exam No.

Supervisor's initial  
with date

Time: 3 Hours

Max. Marks : 100

- Instructions:
1. Attempt all questions.
  2. Figures to right indicate full marks.
  3. Draw neat sketches wherever necessary.

Q-1. Explain the following terms:

[24]

- a. Remote Sensing
- b. Aerial Photography
- c. Geographic Information System
- d. Shape File
- e. Spatial Resolution
- f. Pixels
- g. Arc Catalogue
- h. Raster

Q-2. What are the Applications of GIS in Engineering field?

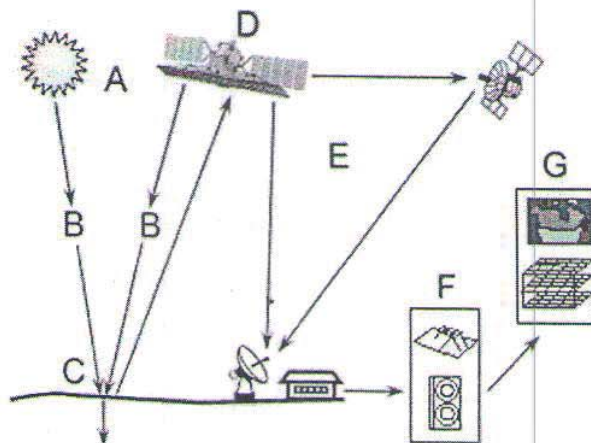
[16]

**[OR]**

Write a short note on the Applications of Remote Sensing.

Q-3. Explain the following diagram.











[15]



Q-4.

Match the following symbols with name

[10]

A		1	Identify
B		2	ArcMap
C		3	Select Features
D		4	ArcToolbox
E		5	Full Extend
F		6	Add Data
G		7	ArcCatalog
H		8	Point Shapefile
I		9	List by drawing order
J		10	Personal Geodatabase

Q-5. Write the steps for georeferencing a google earth image.

[10]

[OR]

Write the steps for joining an excel file with a shape file in ArcGIS software.

Q-6. Give two practical life examples of <sup>EACH</sup> using the following tools in GIS with diagrams: [25]

- Buffer
- Clip
- Spatial Join
- Queries
- Intersect