

Nirma University
University Elective Course
Semester End Examination (IR), November - 2019
B. Tech. in CL/CH/ME/EC, Semester - VII
Bachelor of Design (B.Des.) in Industrial Design, Semester - V
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. Match the following

[10]

A	.shp	1	Projection file
B	.DXF	2	Shape file
C	.tif	3	Stores the index of the feature geometry
D	.prj	4	CAD File
E	.dbf	5	Raster Data
F	.gdb	6	Metadata for ArcGIS
G	.mxd	7	Geo-database
H	.xml	8	Map document
I	.shx	9	comma-separated values
J	.csv	10	Stores attribute information

Q-2. Explain in brief the following:

[15]

- a) Remote Sensing
- b) Classification
- c) Spatial Resolution
- d) Raster Data
- e) Temporal Data

[OR]

Explain in detail the key aspects of image interpretation.

Q-3. Explain the basic components of GIS.

[15]

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Q-4. Explain the basic components of map layout. [10]

[OR]

Explain the difference between attribute query and spatial query.

Q-5. Explain the importance of georeferencing and the steps to be followed for Georeferencing. [15]

Q-6. Write a short note on Classification. [15]

Q-7. Discuss in detail how GIS can be used as a tool in your field of Engineering/Design. [20]