Seat No.: Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**B.PLAN- SEMESTER- V EXAMINATION - WINTER 2018** 

Subject Code:1055505 Date:04/12/2018

**Subject Name: Geo-Informatics for Planning** 

Time:10:30 AM TO 12:30 PM Total Marks: 50

**Instructions:** 

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks

## Q1 Match the following extension of files

(10 marks)

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

Q2	Fill	in	the	b.	lan	ks
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(10 marks)

a.	occurs when particles or large gas molecules present in the					
	atmosphere interact with and cause the electromagnetic radiation to be					
	redirected from its original path					
b.	The detail discernible in an image is dependent on the of the					
	sensor and refers to the size of the smallest possible feature that can be					
	detected.					
c.	are the smallest units of an image					
d.	Images where only large features are visible are said to have					
e.	In a images, small objects can be detected.					
f.	is the science and art of obtaining information about an					
	object, area or phenomenon through the analysis of data acquired by a					
	device that is not in contact with the object, area or phenomenon under					
	investigation.					
g.	A integrates hardware, software, and data to capture					
	store, analyze, manage, and display various forms of geographically					
	referenced information.					

	h is a combination of information, experience and insight that may benefit the individual or the organisation.						
	iis unprocessed facts and figures without any added interpretation						
	j.	analysis.  Map is a mathematical process of representing t surface on a flat map.	he earth's curved				
Q3	Define <sup>-</sup>	the following Geoprocessing tools	(5x2=10 marks)				
	a.	Union					
	b.	Intersection					
	c.	Symmetric Difference					
	d.	Erase					
	e.	Update					
	f.	Dissolve					
	g.	buffer					
Q4	Explain	any two in detail (any 2)	(2x5=10 marks)				
	a) Co	omponents of a GIS					
	b) Attribute query and spatial query with example						
	c) Raster and Vector Data						
Q5	Explain	the components of Aerial Photo-Interpretation in detail	(10 marks)				