

				Sub	ject	Coc	le: k	COE	2066
Roll No:									

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#### BTECH (SEM VI) THEORY EXAMINATION 2021-22 GIS & REMOTE SENSING

Time: 3 Hours Total Marks: 100

Note: Attempt all Sections. If you require any missing data, then choose suitably.

#### **SECTION A**

1.	Attemp	t all questions in brief.	2*10 = 20

Q.no	Questions	Marks	CO
(a)	DefineRemote sensing (RS).	2	1
(b)	Briefly discuss about the Basic component of Remote sensing (RS).	2	1
(c)	Define Sensors.	2	2
(d)	Discuss about the concept of Contrast ratio.	2	2
(e)	Briefly discuss about the Photogrammetry.	2	3
(f)	What do you mean by Satellite remote sensing?	2	3
(g)	What is the use of Microwave remote sensing?	2	4
(h)	Define Spatial data.	2	4
(i)	What do you understand by the Data editing?	2	5
(j)	Discuss about the Map overlay in GIS.	2	5

#### SECTION B

#### 2. Attempt any three of the following:

Q.no	Questions	Marks	CO
(a)	Explain in detail about the application of Remote sensing and GIS for	10	5
	the management of land and water resources.		
(b)	Write short notes on the following:	10	2
	(i) Types of Aerial photographs		
	(ii) Possible causes of Low Contrast.		
(c)	Differentiate between Unsupervised classification and Supervised	10	3
	classification under the Photogrammetry.		
(d)	Describe the concept of Ground control for Aerial photography.	10	4
(e)	Describe theprinciples of Remote Sensing and its advantages and	10	1
	limitations.		

### SECTION C

## 3. Attempt any *one* part of the following: 10\*1 = 10

Q.no	Questions	Marks	CO
(a)	Discuss about the Spatial data models and their Structures.	10	5
(b)	Explain about the requirements of Stereoscopic photographs.	10	2

# 4. Attempt any *one* part of the following: 10 \*1 = 10

Q.no	Questions	Marks	CO
(a)	Discuss about the possible use of Remote sensing (RS) techniques in	10	1
	assessment and monitoring of land and water resources.		
(b)	Discuss about theimportant consideration in the identification of	10	3
	training areas in Photometry.		



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5. Attempt any *one* part of the following:

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Q.no	Questions	Marks	CO
(a)	Discuss in detail about the basic principle of Position determination	10	4
	with Global Positioning System (GPS).		
(b)	Explain in detail about the various data formats of Satellite images.	10	5

6. Attempt any *one* part of the following:

10\*1 = 10

Q.no	Questions	Marks	CO
(a)	Describe the concept of planning End lap and Side lap Aerial	10	2
	photography.		
(b)	What do you mean by the Energy interactions in the atmosphere and	10	1
	with the Earth's surface?		

7. Attempt any *one* part of the following:

10\*1 = 10

Questions	Marks	CO
Briefly discuss any two of thefollowing.	10	3
(i) Multispectral Scanner.		N
	L C	b`
	10	4
regions in Remote sensing.		
OP221		
10.06.2022		
	Briefly discuss any two of thefollowing.  (i) Multispectral Scanner.  (ii) Whiskbroom  (iii) Push-broom scanner	Briefly discuss any two of thefollowing.  (i) Multispectral Scanner.  (ii) Whiskbroom  (iii) Push-broom scanner  Write down about the principal applications of different wavelength regions in Remote sensing.