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**Gandhi Institute of Engineering and Technology University, Odisha, Gunupur  
(GIET University)**



B. Tech (Seventh Semester - Regular) Examinations, November – 2024

**21BAGPC47003 – Remote Sensing & GIS Applications**

(Agricultural Engineering)

Time: 3 hrs

Maximum: 70 Marks

**Answer ALL questions**

**(The figures in the right-hand margin indicate marks)**

**PART – A**

**(2 x 5 = 10 Marks)**

Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. Define GIS.	CO1	K1
b. Explain the term passive remote sensing.	CO2	K1
c. Define vector data.	CO2	K1
d. List the few satellites using for GIS.	CO3	K1
e. What is the main purpose of GIS?	CO4	K1

**PART – B**

**(15 x 4 = 60 Marks)**

Answer **ALL** the questions

	Marks	CO #	Blooms Level
2. a. Define remote sensing and history of remote sensing.	8	CO1	K1
b. Explain different types of RS.	7	CO1	K2
(OR)			
c. Name and explain about Indian satellites that are using RS.	8	CO1	K1
d. Explain ideal remote sensing.	7	CO1	K1
3.a. Explain various applications of RS.	8	CO2	K3
b. Explain map overlay analysis.	7	CO2	K2
(OR)			
c. Discuss briefly about vector map overlay with example.	8	CO2	K3
d. Explain the sources of errors in GIS.	7	CO2	K3
4.a. Explain capabilities and functionalities of GIS.	15	CO2	K2
(OR)			
c. Explain data quality and its gauging points.	10	CO3	K3
d. Explain major applications area of GIS.	5	CO3	K1
5.a. What is meant by polygon data?	8	CO4	K1
b. Explain briefly about any 3 GIS software's.	7	CO4	K2
(OR)			
c. Discuss how closely GIS is related to RS.	8	CO4	K4
d. Explain the components of GIS.	7	CO4	K2

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