



Paper ID : 250475

Printed Page: 1 of 2
Subject Code: BOE066

Roll No:

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BTECH
(SEM VI) THEORY EXAMINATION 2024-25
GIS & REMOTE SENSING

TIME: 3 HRS

M.MARKS: 70

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt all questions in brief.

02 x 7 = 14

Q no.	Question	CO	Level
a.	What does RS stand for in GIS?	CO1	K1
b.	Define electromagnetic spectrum.	CO1	K1
c.	Mention any one major atmospheric window.	CO1	K1
d.	What is the significance of spectral signature in remote sensing?	CO2	K1
e.	Define contrast ratio in remote sensing.	CO2	K1
f.	What is meant by stereoscopic vision?	CO3	K1
g.	Write full form of GIS.	CO4	K1

SECTION B

2. Attempt any three of the following:

07 x 3 = 21

Q no.	Question	CO	Level
a.	Explain the advantages and limitations of remote sensing.	CO1	K2
b.	Describe the typical spectral reflectance curve for water.	CO2	K2
c.	Explain whiskbroom and push-broom scanners with suitable examples.	CO3	K2
d.	What are the basic spatial entities in GIS?	CO4	K2
e.	Briefly explain the concept of image classification in remote sensing.	CO3	K2

SECTION C

3. Attempt any one part of the following:

07 x 1 = 07

Q no.	Question	CO	Level
a.	Explain how remote sensing techniques help in monitoring land use and land cover changes.	CO3	K3
b.	Describe the process of digital image enhancement and its role in image interpretation.	CO3	K3

4. Attempt any one part of the following:

07 x 1 = 07

Q no.	Question	CO	Level
a.	Explain the process of supervised classification and how training areas are selected.	CO3	K3
b.	Discuss the role of GIS in integrating spatial and attribute data for water resource management.	CO5	K3



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5. Attempt any one part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	Analyze the importance of spatial data models and structures in GIS.	CO4	K3
b.	Describe the working and application of multispectral scanners in satellite remote sensing.	CO3	K3

6. Attempt any one part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	Discuss how aerial photogrammetry is used for vertical measurements using the parallax method.	CO3	K3
b.	Evaluate different methods of spatial data input and editing in GIS.	CO5	K3

7. Attempt any one part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	Explain the application of microwave remote sensing in environmental monitoring.	CO3	K3
b.	Describe how GIS and remote sensing can be integrated for effective planning and decision-making.	CO5	K3

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