

## M.Sc Sem-3 Examination

502

Geoinformatics

November-2024

Time : 2-30 Hours]

[Max. Marks : 70

Answer the following :

Q-I	<b>A</b> describing what is land use planning, write note on the role and significance of land use planning in disaster management	7
	<b>B</b> considering a comparative aspect between optical and radar data, write a note on the role of remote sensing in deforestation and desertification monitoring	7
<b>or</b>		
Q-I	<b>A</b> define soil and write a note on at least 5 weathering agents of soil formation	7
	<b>B</b> what is soil salinity and write a note on the role of remote sensing in soil salinity assessment	7
Q-II	<b>A</b> write a note on the challenges in atmospheric pollutant measurements using remote sensing techniques	7
	<b>B</b> define particulate matter, intrinsic vulnerability, vadose zone, artesian well, piezometric surface, geyser, contaminant, chemigation, desorption, biosorption	7
<b>or</b>		
Q-II	<b>A</b> write a note on the limitations of remote sensing in ground water contamination monitoring	7
	<b>B</b> stating examples, write a note on the advantages and disadvantages of remote sensing technology	7
Q-III	<b>A</b> what is disaster, state the types of disaster with (3) example on each and write a note on the role of remote sensing and GIS in disaster impact analysis	7
	<b>B</b> define atmospheric window, capacity, contingency planning, sustainable development, mitigation, pandemic, epidemic, tropical cyclone, resilience, probability	7
<b>or</b>		
Q-III	<b>A</b> write a note on 1) the causal factors of disaster and 2) role of remote sensing in analyzing any two causal factors	7
	<b>B</b> write a note on the significance of disaster response and recovery programs	7
Q IV	<b>A</b> write a note on the disaster risk reduction strategies and the challenges of remote sensing in its assessment	7
	<b>B</b> providing at least three examples, write a note on the role of remote sensing in early detection and early warning	7

(P.T.O)

or

Q-IV	A.explain with at least 4 examples the significance of post disaster reviews	7
	B.write in detail the significance of public awareness and the role of media in overcoming the effects of disaster	7

QV	Attempt any seven out of twelve	14
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- 1) On the basis of origin water is an abiotic resource  
True or false
  - 2) Give two examples of slow onset disasters
  - 3) Give 5 examples of man-made disasters
  - 4) state the full form of DRRM
  - 5) provide the figure on soil horizons
  - 6) push broom is also known as across track scanner  
true or false
  - 7) Define quasi-equilibrium process
  - 8) Define whisk broom scanner
  - 9) Define swath
  - 10) podzolization is the process of \_\_\_\_\_  
    - a) severe weathering
    - b) drying
    - c) severe leaching
    - d) humification
  - 11) Define nadir and zenith
  - 12) State the 5 components of GIS
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