2016

M.Sc.

3rd Semester Examination

REMOTE SENSING & GIS

PAPER—RSG-303

Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group-A

(Geoinformatics in Coastal Management)

[Marks : 20]

Answer any *two* questions.

1. Discuss the various techniques of monitoring changes in coastal processes and landforms.   10

2. Identify the environmental impacts of land reclamation and coastal tourism with special reference to Sundarban and Mondermoni coast.   10

3. Write short notes on : $2\frac{1}{2}\times4$

   (a) Environment for Coral Reef formation ;

   (b) Sea Surface Temperature ;

   (c) Potential Fishing Zone ;

   (d) Coastal Morpho-dynamics.

4. What do you mean by ICZM ? Explain elaborately on Coastal Regulation Zones in India with suitable examples.   2+8

Group-B

(Potential Application Areas of RS / GIS in CZM)

[Marks : 20]

Answer any *two* questions.

1. Identify the major environmental issues, problems and their management with special reference to West Bengal and Odisha coasts.   10

2. Discuss the methods of monitoring surface waters in Coastal Regulatory Zones (CRZ) for appropriate management of the water resources. 10

3. Write short notes on the following items (any two) : 5+5

   (a) Measurement of Sea Surface Temperature (SST) ;

   (b) Study of Chlorophyll in water ;

   (c) Study of suspended mineral in water.

4. What is Potential Fishing Zone (PFZ) ? What are the components of PFZ forecast ? Mention the benefit of fisherman community from PFZ forecast. 2+4+4

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