M.Sc. 3rd Semester Examination, 2012

REMOTE SENSING AND GIS

PAPER - RSG - 303(Gr - A + B)

Full Marks: 40

Time: 2 hours

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

GROUP - A

[Marks : 20]

Answer any two from the following:

- 1. (a) Explain the necessity of construction of Guard wall with diagram.
 - (b) Explain the effect before and after making the Guard wall.

 3 + 7

2.	Explain the Beach process, and human interference	
-	with special reference of RIP current.	10

- 3. Discuss the characteristics of Coastal Biogeography with special reference to mangroves.
- 4. Short notes on (any two):

5 + 5

- (i) Corrosion or solution
- (ii) Coastal Sand Dunes arem of our
- (iii) Effects of land reclamation
- (iv) Gravity waves or wind generated waves
- (v) Tide dominated coast.

(Geoinformatics in Coastal Management)

GROUP - B

[Marks : 20]

Answer any two questions from the following:

5. Identify and explain at least two major environmental issues of West Bengal coast mentioning with their problems and management.

- 6. (a) How does the application of Remote Sensing and GIS help to study the chlorophyll content of coastal waters?
 - (b) What is the significance of such study in Coastal Management? 6+4
- 7. (a) Give a brief account of the biogeographical characters of the Indian Sundarban with special reference to mangrove vegetation. (11)
 - (b) Do you think the mangrove forests protect coastal erosion at the seaface? 6+4
- **8.** Write brief notes on the following (any two): 5×2
 - (i) What is CRZ?
 - (ii) Digital shoreline change mapping technique.
 - (iii) Hyperspectral Remote Sensing data in landscape ecological mapping of the coastal belt.
 - (iv) Study of suspended mineral in coastal water.
 - (v) Application of RS/GIS in fishery study,