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PG/2nd Sem/FSC/19

2019

M.Sc.

2nd Semester Examination

FISHERIES SCIENCE

Paper - FSC 201

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.*

Unit - 1

(Fresh Water Ecology)

1. Answer any *two* questions from the following :

2×2=4

- (a) Define wetland with example.
- (b) Distinguish between lotic and lentic ecosystem.
- (c) State the significance of benthos.
- (d) Why wetland ecosystem is regarded as 'Biological super market' ?

[Turn Over]

2. Answer any *two* questions from the following :

2×4=8

- (a) Briefly describe sulphur cycle with special emphasis on the role of micro organisms.
- (b) Comment on the biodiversity indices and mention their significance.
- (c) Briefly narrate the threats of aquatic ecosystem.
- (d) Discuss the management of Mangrove ecosystem in Indian context.

3. Answer any *one* question from the following :

1×8=8

- (a) (i) What is productivity of an aquatic ecosystem ?
 - (ii) Briefly narrate the physico-chemical characteristics of freshwater ecosystem.
 - (iii) Comment on the role of decomposers in aquatic ecosystem. 2+4+2
- (b) Short note :
- (i) Adaptive modifications of rhizospheric communities.
 - (ii) Universal energy flow model. 4+4

(3)

Unit - 2

(Saline Water Ecology)

4. Answer any *two* questions from the following :

2×2=4

- (a) Why estuarine ecosystem is more productive than other aquatic ecosystem ?
- (b) State the driving forces of coastal areas.
- (c) Write name of two plankton responsible for light or bright green water colour.
- (d) What is photic zone ? State its significance.

5. Answer *two* questions from the following : 2×4=8

- (a) Briefly narrate the strategies of marine biodiversity conservation.
- (b) Briefly explain the structure of sea-beach with diagram.
- (c) Briefly explain the present and future of coastal zone management in India.
- (d) Write a brief note on biotic communities of pelagic zone.

[Turn Over]

6. Answer any *one* question from the following :

1×8=8

(a) (i) What is abyssal benthic zone of marine ecosystem ?

(ii) Briefly describe the physico-chemical characteristics of marine environment.

(iii) Add a note on adaptation of marine animal.

2+4+2

(b) Short note :

4+4

(i) Coral reef ecosystem.

(ii) Indicator species and its ecological significance.
