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C/15/M.Sc./2nd Seme./FSC-203

M.Sc.

2015

2nd Semester Examination

FISHERIES SCIENCE

PAPER—FSC-203

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Unit—I

(Aquatic Pollution)

1. Write in brief any two of the following : 2×2
- (a) Define acute poison and accumulative poison.
 - (b) What do you mean by algal bloom ?

(Turn Over)

- (c) State the pollution indicator species with example.
- (d) Mention different criteria of drinking water.
2. Answer any *two* questions from the following : 2×4
- (a) Discuss the impact of radioactive pollution on aquatic habitat.
- (b) Discuss the harmful effects of chlorination in pollution abatement.
- (c) State the cause and effect of Eutrophication.
- (d) Discuss the role of Central Pollution Control Board of India.
3. Answer any *one* question of the following : 1×8
- (a) (i) What do you mean by sewage and sludge ?
- (ii) Discuss Sewage treatment process.
- (iii) Add a note on sewage fed fishery in East Kolkata Wetland. 2+4+2
- (b) (i) Mention the causes of Arsenic pollution in ground water.
- (ii) Add a note on thermal pollution.
- (iii) Discuss anerobic treatment of water for improving its quality. 2+2+4

Unit—II**(Ecotoxicology & Environment)**

4. Answer any *two* questions from the following : 2×2
- (a) Define 'xenobiotics' and 'exnobionts'.
 - (b) State the concepts of chilation therapy.
 - (c) What do you mean by Minamata disaster ?
 - (d) Mention the causes of ozone layer depletion.
5. Answer any *two* questions from the following : 2×4
- (a) Discuss the biotransformation of xenobiotic materials.
 - (b) Write a note on Biodiversity Indices.
 - (c) Enumerate the role of UNEP to control pollution.
 - (d) Discuss toxicity bioassay technique.
6. Answer any *one* questions of the following : 1×8
- (a) (i) Define biodiversity. Mention its types.
 - (ii) Add a note on fisheries biodiversity in India.
 - (iii) How would you conserve aquatic biodiversity ?

2+2+4

- (b) (i) Discuss the relation among Green House Effect and Global Warming.
- (ii) Add a note on biomagnification.
- (iii) Mention role of WTO for environmental protection.
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