

M.Sc. Examination, 2016

Semester – I

Environmental Science

Paper – MEC-15

(Water Pollution)

Time: 3 Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Answer question No. 1 and any four from the rest

1. Write short note on **any four** of the following : 4×2=8
 - a) BOD
 - b) Toxic effect of Cadmium
 - c) General structure of Dioxin & Furan
 - d) Booms
 - e) Fluorosis
 - f) POPs
 2. What is Dissolved Oxygen and its significance in aquatic environment? Explain the methods and its modification for its analysis. 3+5=8
 3. Explain the various processes involved in sewage treatment plant. 8
 4. Discuss the status of Arsenic in West Bengal. Explain the chemistry of release in aquatic environment. Suggest some methods to mitigate it. 2+3+3=8
 5. What is Namami Ganga and objective of NMGC? What are the recent initiative taken by the Government of India for cleaning Ganga? 1+2+5=8
 6. Enumerate the various types of pesticides with example. Give a note on their toxic effects. Enlist the general structure of organo phosphate pesticide with example. 3+2+3=8
 7. Discuss the source of mercury in the environment. Discuss their chemistry in aquatic environment. Briefly discuss their toxic effect. 2+4+2=8
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