

M.Sc. Examination, 2016
Semester – III
Environmental Science
Paper – MEE-311 (Elective)
(Environmental Monitoring and Management)

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) PM_{2.5}
 - b) ESP
 - c) Namami Ganga
 - d) Water quality index
 - e) Differentiate BOD and COD
 - f) Lichen as an indicator

 2.
 - a) What are the various modes of air sampling. 4+4=8
 - b) What considerations one needs before undertaking any air quality assessment in a City/Town?

 3.
 - a) Discuss the air quality monitoring Programme in India. 3+2.5+2.5=8
 - b) How to control air pollutants from mobile and stationary sources?

 4.
 - a) Describe the different types of water pollutants. 4+4=8
 - b) Describe the different steps involved in waste water treatment.

 5. Enumerate the major remediation methods for heavy metals in soil. Explain in detail any method you have studied 2+6=8

 6.
 - a) Enumerate the major sources of organic pollutants in soil. 4+4=8
 - b) Describe the various methods for management of hospital wastes.

 7. What are Bioindicators? Discuss the role of higher plants and micro organisms as bioindicators of environmental pollution. 2+3+3=8
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