

ROLL No.:

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Total number of pages: { 1 }

Total number of questions: 08

M.Tech. -EVS (PT, Reappear)
ENVIRONMENTAL CHEMISTRY

Subject Code: ES-503

Paper ID:

Batch: 2011 onwards

May 2018
Reappear.

Time allowed: 3 Hrs

Max Marks: 100

Important Instructions:

- Attempt any five questions
- All questions carry equal marks
- Assume any missing data

- Q. 1. Explain concept of Green Chemistry citing any two Principals in detail.
- Q. 2. Discuss rates of Chemical and Bio-chemical reactions with applications in Biological Treatment.
- Q. 3. How Organic compounds react and behave in the environment ? Discuss in detail.
- Q. 4. Explain in detail the Oxidation-Reduction reactions with applications in Metal Removal Processes and Acid mine drainage.
- Q. 5. Discuss impact of Ozone Hole on environment.
- Q. 6. Explain Mechanism of formation of Aerosols. How Aerosols control atmosphere ?
- Q. 7. Explain Hydrocarbon Chemical Cycles and aqueous phase Chemistry of SO₂.
- Q. 8. Write Short Note on analysis of following:
a) pH b) Residual Chlorine c) COD d) Total dissolved solids