



Name :

Roll No. :

Invigilator's Signature :

CS/M.Sc. (GE)/SEM-3/MSGEN (EBT)-305-A/2010-11

2010-11

BIOLOGICAL CONTROL OF ENVIRONMENT

Time Allotted : $1\frac{1}{2}$ Hours

Full Marks : 35

The figures in the margin indicate full marks.

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

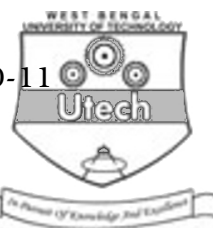
GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *five* of the following :

5 × 1 = 5

- i) Common toxicants around our home is
 - a) gasoline b) bleach
 - c) mineral spirits d) all of these.
- ii) Toxicity of a chemical does not depend upon
 - a) chemical reactivity
 - b) dose
 - c) duration of the exposure
 - d) size.
- iii) Sometimes liver converts a relatively harmless substance into a carcinogen. This process is known as
 - a) Bioaccumulation b) Bioremediation
 - c) Biotransformation d) None of these.



- iv) Which is not a teratogenic agent
- a) barbiturate b) dioxin
- c) lead d) vitamin.
- v) Pulmonary fibrosis is a build up of scar tissue due to
- a) tin b) iron
- c) asbestos d) lead.
- vi) Environmental hormones are
- a) digioxins b) oxins
- c) dioxins d) none of these.
- vii) Chemical pesticides are
- a) orgachlorines b) organophosphates
- c) carbonates d) all of these.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. 3 × 5 = 15

2. How can water quality be biologically monitored ? 5
3. Schematically represent the systematic approach to the ERA. 5
4. Describe how SO₂ is removed by air pollution control system. 5
5. Write short notes on alternative energy sources. 5
6. Discuss the advantages and limitations of phytoremediation. 2 $\frac{1}{2}$ + 2 $\frac{1}{2}$

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GROUP – C

(Long Answer Type Questions)

Answer any *one* of the following.

1 × 15 = 15

7. a) Write about green technologies. Define green building.
- b) State at least two examples of recycling of solid wastes.
- c) What are the advantages and disadvantages of green petrol ?
- 3 + 2 + 4 + 6
8. a) Write a short note on toxins.
- b) What is electrostatic precipitator ?
- c) How to control gaseous pollutants ?
- 5 + 5 + 5

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