

Seat No. : \_\_\_\_\_

**AA-122**

April-2019

**B.Sc., Sem.-IV**

**CC-205 : Environmental Science**

**Time : 2:30 Hours]**

**[Max. Marks : 70**

1. (A) Define sound waves and explain effect of meteorological parameters on its propagation. **14**
- OR**
- (1) Explain fallout from nuclear explosions giving appropriate examples. **7**
- (2) What are persistent organic pollutants and xenobiotic components ? **7**
- (B) Answer any **four** in brief : **4**
- (1) Define bio-magnification.
- (2) Define bio-accumulation.
- (3) Name the technique developed by TERI for Bio-remediation.
- (4) Differentiate between nuclear fission and fusion.
- (5) Name any two location of nuclear power plant in India.
- (6) Who is father of nuclear technology in India ?
2. (A) Describe pollutants and analyze reasons for declining air quality in India. **14**
- OR**
- (1) Describe in detail suspended particulate matter and its harmful effects on environment. **7**
- (2) Describe in detail types of wastes. **7**
- (B) Answer any **four** in brief. **4**
- (1) Why antiknock agents added in automobile fuel ?
- (2) What kind of biomedical waste is collected in yellow bag ?
- (3) What is source of radioactive waste ?
- (4) Name two pollutants released from mining sites.
- (5) What are carcinogens ?
- (6) Define ambient air.

3. (A) Describe water pollution by Algal bloom and effects of eutrophication on environment. 14

**OR**

- (1) Define BOD and COD. Explain its environmental importance. 7
- (2) Name toxic heavy metals and explain disease linked to heavy metal poisoning. 7

- (B) Answer any **three** in brief : 3

- (1) What is cause of Blue baby syndrome ?
- (2) Define effluent.
- (3) Give full form of MINAS.
- (4) Give full form of WHO.
- (5) Name three states the river Ganga flows through.

4. (A) Define sustainable development. Explain sustainable manufacturing and its environmental importance. 14

**OR**

- (1) Describe principle and use of electrostatic precipitators with diagram. 7
- (2) Describe gaseous pollutants giving appropriate examples. 7

- (B) Answer any **three** in brief : 3

- (1) Write full form of IOCL.
- (2) What is bio-filtration ?
- (3) What is fugitive emission ?
- (4) Which GHG has highest GWP ?
- (5) Give full form of GWP.
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