

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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