

Seat No. : _____

ME-109

May-2018

B.Sc., Sem.-IV

CC-205 : Environmental Pollution

Time : 3 Hours]

[Max. Marks : 70

1. Answer any **two** of the following :

14

- (A) Write note on sources of noise pollution.
- (B) Define 'recalcitrant' compound and give its chemical and molecular characteristics.
- (C) List properties of sound waves and explain meteorological parameters affecting its spread.
- (D) Discuss the polluting effect from Nuclear reactors and Thermal power plants.

2. Answer any **two** of the following :

14

- (A) Discuss Natural and Anthropogenic sources of atmospheric pollutants.
- (B) Describe two kinds of air-pollutants: SPM and Carcinogens.
- (C) Explain importance and internal reactions among of pollutants in the atmosphere.
- (D) Discuss nature and effects of Biomedical and Hazardous types of waste.

3. Answer any **two** of the following :

14

- (A) Explain sources of pollutants in water.
- (B) Discuss measures to control water pollution.
- (C) Describe types of pollutants present in water.
- (D) Give purpose of measuring BOD and COD. Explain determination of any one of them.

4. Answer any **two** of the following :

14

- (A) How Cleaner Processes, Process modification and Reaction Engineering approaches prevent pollution in chemical processes ?
- (B) Explain working of Dry and Wet collectors for particulate control.
- (C) Describe use of Electrostatic Precipitators and Biofiltration to control Particulate matters.
- (D) Define Fugitive Emissions and give its sources and controls.

5. Answer the following :

14

- (1) Define Biomagnification.
- (2) Give meaning of term 'xenobiotic'.
- (3) Name Two unit used to measuring any of the sound properties.
- (4) Name three heavy metals contaminants of water.
- (5) List two characteristics domestic waste-water.
- (6) Why presence of coliforms in drinking water is considered harmful ?
- (7) Give values for two parameter of Minimal National Standards (MINAS) for water.
- (8) Name the harmful chemical present in the cleaning agent.
- (9) List criteria for assessing Air quality.
- (10) Name the antiknock agents mixed with fuel like gasoline.
- (11) What harm is caused by Mining wastes ?
- (12) How pollution of odour is controlled ?
- (13) How Life cycle Assessment control chemical pollution ?
- (14) How Sustainable Manufacturing reduces pollution ?