

2021

Time :As in Programme

Full Marks : 50

The figures in the right-hand margin indicate marks.

*Answer **all** questions.*

1. (a) What do you mean by earth's heat balance? Discuss the role of atmosphere to maintain the earth heat balance. 6
- (b) What do you mean by biogeochemical cycle? Define the characteristic features of the active and passive pools of the cycle. 6
- (c) Discuss the important stages and its perturbation in the oxygen cycle by manmade activities. 5

OR

2. (a) How does the hydrological cycle help to maintain the earth's heat balance and average global temperature? 6
 - (b) Discuss about important parameters measuring the quality of water. 6
 - (c) Discuss about different types sources and cause of water pollution. 5
3. (a) Outline the important routes causing soil pollution. 6
 - (b) Discuss about composition and various uses of soil. 6

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- (c) Discuss about various methods of solid waste disposal. 5

OR

4. (a) Discuss in brief consequences of air pollutants accumulation in environment. 6
(b) What is smog? Illustrate how PAN is formed in a smog producing chain reaction. 6
(c) Explain about (i) Green house effect (ii) Acid rain. 5
5. (a) Explain about different process of solid waste management in industry. 6
(b) What is radioactive pollution? Explain in detail its sources of generation and effect on human life. 5
(c) Explain in brief the hazards caused by (i) Metallurgy industry (ii) Thermal power plant. 5

OR

6. (a) Give list of three toxic chemicals in environment. Indicate their sources of generation and toxicities. 6
(b) Enumerate the biochemical effect of Arsenic, Mercury and their impact on human being. 5
(c) Write a note on biodegradation of waste. 5

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