PART A

Answer any two full questions, each carries 15 marks.

1  a) “Everything is connected to everything else” comment on it. (5)
     b) Illustrate the population growth curve in detail. (5)
     c) What are the major pollution problems caused by urban areas? (5)

2  a) Which do you think is a greater danger to man?
     i) Pesticides used by farmers and householders or
     ii) Toxic substances released by industrial plants.
     Justify your answer. (8)
     b) List out the major types of particulate matter, their sources and effects. (7)

3  a) What do you mean by photochemical smog and how is it produced? (5)
     b) What are the main sources and effects of fluoride emissions to the atmosphere? (5)
     c) What is lapse rate and stability of atmosphere? (5)

PART B

Answer any two full questions, each carries 15 marks.

4  a) Cooling towers are used in many industrial plants as a means for increasing water cycle within the plant. Outline the advantages and disadvantages of their approach (5)
     b) Differentiate the water quality characteristics between surface water and groundwater sources. (5)
     c) What is BOD? What is its environmental significance? (5)

5  a) Give the technical, economical and psychological considerations taken into account when you would run a sanitary landfill operation in your city. (10)
     b) Give the importance of pyrolysis in Municipal solid Waste Management. (5)

6  a) Give the importance of C/N ratio in Municipal solid waste disposal. (5)
     b) Elaborate the various MSW sources, its classification and characteristics (10)

PART C

Answer any two full questions, each carries 20 marks.

7  a) What are the various problems associated with management of plastic wastes? (5)
     b) What are “Tailings” and give its importance in land pollution. (5)
     c) Identify the various environmental problems of “Ship breaking” (5)
     d) Write the importance of pH of soil to control the soil pollution (5)

8  a) Identify the various land pollution abatement process and explain each. (8)
     b) What are the different problems encountered in open dumping of wastes? (5)
     c) List the major sources and effects of land pollution (7)

9  a) Mention typical values of acceptable levels of sound as per the Is codes for:
     i) Rural areas       ii) Urban residential areas
     iii) City areas     iv) Industrial areas
     b) Enlist and explain the measures to be adopted to protect the sound reception. (10)
PART A

Answer any two full questions, each carries 15 marks

1 a) Illustrate the different process involved in nitrogen cycle. (10)
b) Differentiate between primary and secondary pollutants. (5)
2 a) Interpret the statement “Environment is multidisciplinary in nature.” (5)
b) Write short note on sulphur dioxide. (5)
c) What is meant by ambient air quality standards. (5)
3 a) Explain various components of environment. (8)
b) Summarize the effects of air pollutants on environment. (7)

PART B

Answer any two full questions, each carries 15 marks

4 a) Compare point and non-point source of pollution. (5)
b) Write notes on water pollution. (5)
c) Define E-waste. Explain the sources of generation of E-waste. (5)
5 a) Describe the recycling and reuse of solid wastes. (7)
b) Discuss physical, chemical and biological characteristics of water. (8)
6 a) Identify composition and characteristics of solid waste. (8)
b) List out major pollutants of water. (7)

PART C

Answer any two full questions, each carries 20 marks

7 a) Evaluate the effects of urbanization on land degradation. (10)
b) Examine the sources and effects of noise pollution. (10)
8 a) Elaborate impacts of modern agriculture on soil. (8)
b) Propose control measures for noise pollution. (8)
c) Distinguish between land and soil pollution. (4)
9 a) Write short note on measurement of noise. (5)
b) Define noise pollution. Outline the term equivalent sound pressure level. (7)
c) Elucidate abatement measures for land pollution. (8)
PART A

Answer any two full questions, each carries 15 marks.

1 a) Write short note on population explosion. (7)

b) The industrial developments have caused positive as well as negative effects on human health-Give relevant comments. (8)

2 a) Write a note on source and effects of particulate air pollutants mentioning their chemical composition (7)

b) Draw a flow chart showing the movement of food and energy in a food chain (4)

c) What are the biotic and abiotic components of an ecosystem? (4)

3 a) What is ozone hole? What are the causes of ozone hole formation? Discuss effects of ozone layer depletion and its remedial measures (7)

b) Define ambient air quality standards. (5)

c) What is biogeochemical cycle? (3)

PART B

Answer any two full questions, each carries 15 marks.

4 a) Give the environmental significance of DO and BOD. (8)

b) Explain about 1) The major pollutants of water (7)

2) Water borne diseases

5 a) How Eutrophication of water bodies lead to extinction of bird species? (4)

b) Re-cycling is an integral part of solid waste management. Comment. (5)

c) Give the different methods available for solid waste disposal. Mention the advantages and disadvantages of land filling. (6)

6 a) Explain the segregation of solid waste. (5)

b) Differentiate the composition of MSW in urban areas and industrial solid waste. (5)

c) Define e-waste. What are the sources of generation of e-waste? (5)
PART C

Answer any two full questions, each carries 20 marks.

7 a) List the effects of urbanization in soil degradation (10)
b) How sound insulation can be done during construction stage of a building? (5)
c) What are wastelands and wetlands? (5)

8 a) List out the major sources of soil pollution and explain any five. (10)
b) Discuss about the measurement of sound. (6)
c) What are the physical and psychological effects of noise. (4)

9 a) What are the various sources of noise pollution? How can it be controlled? (10)
b) What is the importance of pH of soil in its pollution? (5)
c) Define a) Pitch  b) Sound pressure level (5)