

October 2018

Time – Three hours
(Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory. Answer any FOUR questions from the remaining in each PART – A and PART – B*
- (2) Answer division (a) or division (b) of each question in PART – C.*
- (3) Each question carries 2 marks in PART – A, 3 marks in Part – B and 10 marks in PART – C.]*

PART – A

1. What do you mean by infiltration wells?
2. Write down the BISI standards for (i)BOD (ii)Total solids and (iii)Fluorides in drinking water.
3. Define the term dosage of chlorine in chlorination.
4. What do you mean by coagulation? Name the different coagulants used for it.
5. What is the function of ecosystem?
6. Define the term environmental degradation.
7. Distinguish earthquake and Tsunami.
8. How the ozone layer is depleted? What are the effects of it?

PART – B

9. Explain the pH test for water.
10. Narrate briefly the continuous system of supply of water.
11. Briefly explain the pressure filter.
12. Write short notes on food chains.
13. Briefly explain the effects of noise on people.
14. What are the direct benefits from forest?
15. Narrate briefly the fire escapes in buildings.
16. Explain the value of biodiversity.

[Turn over.....

PART - C

17. (a) The census records of a city show the population as follows.

Present	: 85,000
Before one decade	: 73,000
Before two decades	: 68,000
Before three decades	: 53,000

Workout the probable population after two decades by incremental increase method, geometrical increase method and arithmetical increase method.

(Or)

- (b) Describe in detail the different sources of water.
18. (a) Define the term chlorination and explain the different methods and forms of chlorination.
- (Or)
- (b) What do you mean by service reservoirs? Explain them with suitable sketches.

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19. (a) Write short notes on (i)Decomposers (ii)Conservation of biodiversity.

(Or)

- (b) Explain in detail about forest ecosystem.
20. (a) Narrate in detail about pollution impact of non-biodegradable waste matters and remedial measures.
- (Or)
- (b) Discuss in detail about the effects and prevention of land pollution.

21. (a) Write a detailed note on effects of earthquake and earthquake mitigation.

(Or)

- (b) Explain in detail about causes, effects and management of Tsunami.
