

**April 2019**

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. Why the water is to be protected?
2. Distinguish between shallow wells and deep wells.
3. Differentiae plain sedimentation and sedimentation with coagulation.
4. Write down the merits of combined system of supplying water.
5. Define the term greenhouse effect and write down any two consequences of it.
6. What are the causes of earthquake?
7. What do you mean by disaster? Name the major disasters.
8. Define the term ecological succession.

**PART – B**

9. Briefly explain about infiltration gallery.
10. Write short notes on theory of filtration.
11. Briefly narrate about underground reservoirs.
12. What do you mean by ecological pyramid? Explain briefly.
13. What are the impacts of plastic pollution on land?
14. Write short notes on Tsunami management.
15. Briefly explain about warning systems.
16. Name the waterborne diseases and explain their causes.

[Turn over.....

PART - C

17. (a) Name the different types of demand of water and explain the factors affecting it.

(Or)

- (b) Briefly explain about different chemical tests for drinking water.

18. (a) Explain the function of a rapid sand filter with suitable sketches.

(Or)

- (b) Narrate the different layouts of distribution of water with necessary sketches.

19. (a) Explain in detail about (i)Energy flow in the ecosystem (ii)Food webs.

(Or)

- (b) Narrate in detail about threats to biodiversity.

20. (a) Explain the different air pollution control equipments with suitable sketches.

(Or)

- (b) Describe in detail about the different causes of deforestation and effective measures to conserve forest wealth.

21. (a) What are the causes of flood? Explain in detail about flood management.

(Or)

- (b) What are the manmade disasters? Explain in detail.

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