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c16-c-503**6622****BOARD DIPLOMA EXAMINATION, (C-16)****OCTOBER/NOVEMBER—2023****DCE - FIFTH SEMESTER EXAMINATION****ENVIRONMENTAL ENGINEERING***Time : 3 Hours]**[Total Marks : 80***PART—A****3×10=30**

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. What are the different methods of forecasting the future population?
2. Write any three differences between gravity conduit and pressure conduit with reference to flow.
3. Write any six water borne diseases.
4. What is meant by Schmutzdecke?
5. Write any four requirements of a good coagulant.
- * 6. Define the following :
 - (a) Air gap
 - (b) Fire hydrant
 - (c) Service pipe
7. What do you understand by the term catchment area?
8. Under what circumstances we need the placing of inverted syphon?

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9. What do you mean by symbiosis?
10. What is the function of floor trap?

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. What are the points to be considered in locating and designing intake structures?
12. What is meant by pH value? What is its significance in public health engineering?
13. Explain grid iron system with a sketch and mention the advantages and disadvantages.
14. What do you understand by separate system? List its merits and demerits.
15. Write any ten components of sewage pumping station and explain each.
16. Explain the construction and operation of septic tank with a neat sketch.
- * 17. Write any ten differences between trickling filter and activated sludge process.
18. What is meant by sanitary landfill? How is it done?

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