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4619

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE-2019

DCE - FIFTH SEMESTER EXAMINATION

ENVIRONMENTAL ENGINEERING – I

Time:3 Hours

Max. Marks:80

PART-A

10x3=30M

Instructions: 1) Answer all questions and each question carries three marks.
2) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1) List any three adverse effects of ozone layer depletion?
- 2) State any three methods of forecasting population of a town?
- 3) Draw the flow chart of typical water supply sceme?
- 4) Draw the sketch of an infiltration gallery and label the parts?
- 5) Give any three merits and demerits of Asbestos cement pipes?
- 6) List any three objects of testing of water?
- 7) Define break point chlorination?
- 8) What is sedimentation? State the methods of sedimentation?
- 9) Define a) Service pipe b) Communication pipe c) Distribution pipe.
- 10) List the various types of layout in distribution system?

PART-B

10x3=30M

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- Instructions:** 1) Answer any **Five** questions and each question carries **Ten** marks.
2) The answer should be comprehensive and the criteria for valuation is the content but not the length of the answer

- 11) a) List the factors effecting the per captia demand. (4)
b) Explain briefly the variation in demand for water supply. (6)
- 12) Explain the follwing intakes in detail with the help of sketch. (5 +5)
a) River intake b) Reservoir intake
- 13) Explain procedure of laying of pipe line.
- 14) List the types of impurities in water and mention thier causes and effects?
- 15) Explain the construction and working of slow sand filter with the help of neat sketch?
- 16) a) Briefly describe four methods used to detect leakage in a distribution system? (6)
b) State any eight measures to prevent leakage? (4)
- 17) Name the different distribution Systems and explain any two of them with neat sketches?
- 18) Draw the sketch of general layout of water supply arrangements for single storey building and write details

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