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10CV666

Sixth Semester B.E. Degree Examination, June/July 2016

Rural Water Supply and Sanitation

Time: 3-hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. Discuss the need for protected water supply. (08 Marks)
b. Explain the various factors that govern the selection of a particular source of water in formulating a town or city water supply scheme. (06 Marks)
c. Explain water borne diseases. What are the precautionary measures to be taken for control of the communicable diseases? (06 Marks)
- 2 a. What are the advantages and disadvantages of centrifugal pumps and reciprocating pumps? (06 Marks)
b. Explain the following : i) Plain chlorination ii) Break point chlorination iii) Super chlorination. (06 Marks)
c. Distinguish between fluoridation and defluoridation. Explain any one method of defluoridation in detail. (08 Marks)
- 3 a. Briefly explain the following methods of soil disposal with neat sketches :
i) Aqua privy ii) Two – pit latrine. (08 Marks)
b. Explain the Septic Tank with neat sketch. Also Highlight advantages and disadvantages. (07 Marks)
c. With neat sketch, explain soak pit. (05 Marks)
- 4 a. Explain : i) Concept of Eco – sanitation ii) Sources of ground water pollution. (10 Marks)
b. What is Rain water harvesting? Explain suitable methods of rain water harvesting in rural areas. (10 Marks)

PART – B

- 5 a. Define the following as referred to communicable diseases : i) Epidemic ii) Endemic iii) Vehicle of Infection iv) Vaccination v) Isolation. (10 Marks)
b. Discuss the general methods of communication of communicable diseases. (10 Marks)
- 6 a. Describe the following methods of disposal with advantages and disadvantages :
i) Dumping ii) Incineration iii) Salvaging. (10 Marks)
b. Explain with a neat sketch Bio plant in detail. (10 Marks)
- 7 a. Explain all the essentials necessary to obtain the objectives of milk sanitation. (08 Marks)
b. Define Pasteurization. Explain any one method of pasteurization, with a sketch. (12 Marks)
- 8 a. Discuss the different diseases transmitted by the mosquito. (10 Marks)
b. Briefly explain control of nuisance mosquitoes. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.