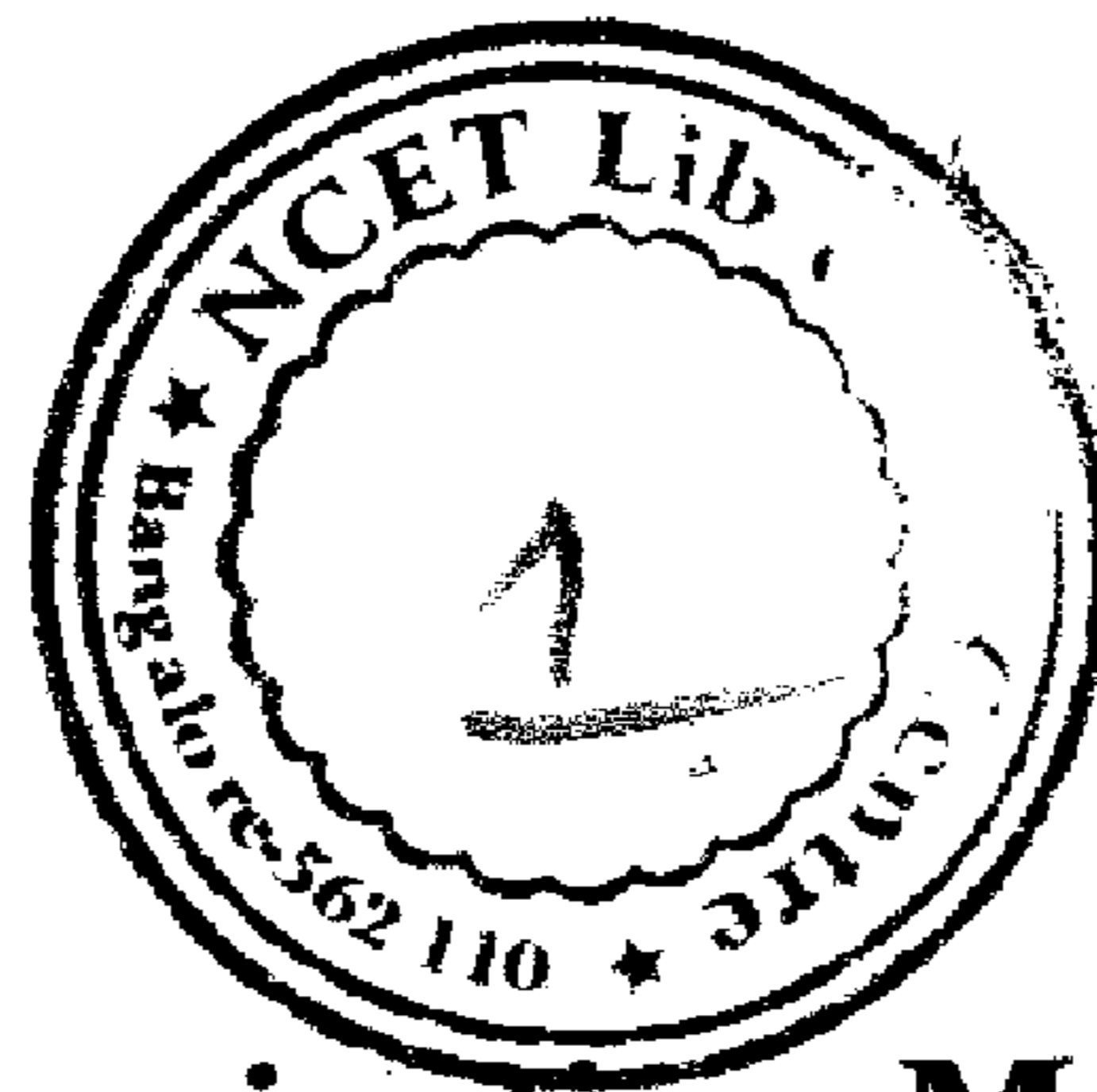


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06CV666

Sixth Semester B.E. Degree Examination, May/June 2010
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. Give reasons for the importance of providing protected water supply and mention the common water borne diseases. (05 Marks)
b. What are the reasons for contamination of well? Explain briefly the measures to be taken for protection of well. (10 Marks)
c. Mention the drinking water quality standards of : i) Residual chlorine ii) Hardness iii) Chlorides iv) Fluorides v) Lead vi) Arsenic vii) Sulphates viii) Iron ix) Nitrates x) Cyanide. (05 Marks)
- 2 a. Enumerate the different methods of disinfection of water and briefly explain the process of disinfection of water by chlorination and its advantages. (07 Marks)
b. Describe the method of Iron removal from water with necessary reactions. (06 Marks)
c. Explain the method of removal of hardness of water by lime – soda process. Write all the reactions. (07 Marks)
- 3 a. Explain the method of trenching, with a neat sketch. (07 Marks)
b. With a neat sketch, explain the septic tank with advantages and disadvantages. (07 Marks)
c. With a neat sketch, explain the aqua privy. (06 Marks)
- 4 a. Write briefly on : i) Storm water and sewage disposal ii) Rain water harvesting. (12 Marks)
b. Explain trenching and composting methods. (08 Marks)

PART - B

- 5 a. Explain the following types of refuse : i) Garbage ii) Rubbish iii) Ashes. (08 Marks)
b. Describe the following methods of disposal with advantages and disadvantages :
i) Dumping ii) Incineration iii) Salvaging (10 Marks)
c. Which is the best method of refuse disposal for a small organized community? (02 Marks)
- 6 a. Describe in detail all the important points to be considered for planning the construction of a cow shed and precautions to be taken in the location of toilet and milk house. Also mention precautions to be taken to maintain hygiene. (10 Marks)
b. Explain all the essentials necessary to obtain the objectives of milk sanitation (08 Marks)
c. Mention any four diseases which may be spread by contaminated milk. (02 Marks)
- 7 a. Explain the various Fly control measures. (08 Marks)
b. Explain the life cycle of a housefly. (08 Marks)
c. Mention the common diseases transmitted by the mosquito. (04 Marks)
- 8 a. Explain different methods of communication of communicable diseases. (10 Marks)
b. Explain the methods of controlling communicable diseases. (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, = 50, will be treated as malpractice.