

Register No. 18 BCTCE024 /

7E7068

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Total No of Pages: 2

7E7068

B. Tech. VII Sem. (Main / Back) Exam., Nov. – Dec. - 2018

Civil Engineering

7CE6.3A Rural Water Supply & Sanitation

Time: 3 Hours

Maximum Marks: 80
Min. Passing Marks: 26

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination.
(Mentioned in form No. 205)

1. NIL

2. NIL

UNIT-I

- Q.1 (a) Discuss the importance of village community in India. [8]
(b) Explain traditional sources of water in rural areas. [8]

OR

- Q.1 (a) Describe the condition of Indian villages with respect to social and health aspects. [8]
(b) Explain with neat sketch working of hand pump. [8]

UNIT- II

- Q.2 (a) Write down various standards of water quality. [8]
(b) Describe various measures to be taken in controlling communicable diseases. [8]

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OR

- Q.2 (a) Describe various sources of communicable diseases. [8]
(b) Explain the estimation of total water requirement. [8]

UNIT- III

- Q.3 (a) Describe slow sand filter and its working with a neat sketch. [8]
(b) Explain how will you remove fluoride from water. [8]

OR

- Q.3 (a) Describe different schemes of rural water supply in Rajasthan. [8]
(b) Explain horizontal roughing filter with a neat sketch. [8]

UNIT- IV

- Q.4 (a) Explain various tests for milk. [8]
(b) Describe food poisoning. [8]

OR

- Q.4 (a) Explain life cycle of flies with a neat sketch. [8]
(b) Explain various measures to be taken to control the mosquitoes. [8]

UNIT- V

- Q.5 (a) Explain pour flush latrines with neat sketch. [8]
(b) Write down various problems of storm water and sludge. [8]

OR

- Q.5 (a) Write down the design steps of septic tank. [8]
(b) Write short notes on - [4x2=8]
(i) Biogas
(ii) Soak pit