

Printed Pages : 3

(Following Paper ID and Roll No. to be filled in your Answer Book)

FCF.024

PAPER ID : 100658

Roll No.

B. Tech.

Time: 3 Hours]

(SEM. VI) THEORY EXAMINATION, 2014-15 RURAL WATER SUPPLY & SANITATION

[Total Marks: 100

Answer all questions

Attempt any four parts of the following : 5×4-20 (a) Mention and discuss the factors that influence per

Define and briefly explain aquifers and their types What are the various types of springs? Discuss

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capita demand.

in brief.

@ B

guidelines for slow sand filtration.

What are the methods available for collection of night soil? What do you understand by filtration? Give design

## Attempt any two parts of the following: 2×10=20

How will you estimate the requirement of a village, while planning a water supply scheme for the treatment which should be given to the available same? Also discuss as assess the necessary water source in the area.

Derive theim's formulae for unconfined aquifer www.FirstRanke.

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ਭ Explain the relation between public health and water supply.

G supply project?

Attempt any two parts of following:

Ξ Name different types of pumps used generally in water supply scheme. What are the factors on which their selection depends?

3 Explain briefly the general methods of distribution of water in municipal water supply schemes.

હ Explain the working of imhoff tank. How is it comparable to a septic tank?

3 pond.

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What do you understand by the "sanitary land filling". Discuss the physical tests of solid waste.

3 filling? What are conditions which are considered to be favorable for the disposal of solid waste by land

Attempt any two parts of the following: 2×10=20

Differentiate between the hazardous and nonsolid wastes in India. quantities of generation of various types of industrial hazardous industrial solid wastes, giving approximate

Attempt any two parts of the following: 2×10=20 Discuss the mechanism of working of a stabilization What are the advantages of a successful water

> 9 composting and explain their utilization in disposal Differentiate between composting and vermi of solid waste in rural areas.

plants in rural areas? What are various operational problems of biogas

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