Printed Pages: 3 

(Following Paper II) and Roll No. to be filled in your Answer Book) PAPER ID : 100658

B. Tech.

Roll No.

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

Time: 3 Hours]

Answer all questions

[Total Marks: 100

Attempt any four parts of the following: Mention and discuss the factors that influence per capita demand. 5×4=20

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

Derive theim's formulae for unconfined aquifer.

What do you understand by filtration? Give design

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night soil? guidelines for slow sand filtration. What are the methods available for collection of

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

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

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(a)

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- <u>@</u> ङ Explain the relation between public health and water supply.
- supply project? What are the advantages of a successful water

# Attempt any two parts of following:

Name different types of pumps used generally in

- of water in municipal water supply schemes. Explain briefly the general methods of distribution which their selection depends? water supply scheme. What are the factors on
- comparable to a septic tank? Explain the working of imhoff tank. How is it

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

Discuss the mechanism of working of a stabilization

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

**(b)** 

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

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

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

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- Differentiate between composting and vermi composting and explain their utilization in disposal of solid waste in rural areas.
- plants in rural areas? What are various operational problems of biogas

MMM.FilestRanke.