

Printed pages: 01

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100618

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B. TECH.
(SEM -VI) THEORY EXAMINATION 2017-18
RURAL WATER SUPPLY AND SANITATION

Time: 3 Hours

Total Marks: 100

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x10 = 20
- What are various devices available for rural water supply?
 - Discuss the factors influencing per capita demand.
 - What are the issues of rural water supply?
 - Which is the best method of refuse disposal for a small organized community?
 - Mention any four diseases which may spread by contaminated milk.
 - State the advantages of septic tank.
 - What do mean by rural community?
 - Define sanitation.
 - Write short note on bio gas.
 - Define design population.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30
- Explain in details about occupational hazards in various public buildings.
 - What are the advantages, disadvantages and use of the stabilization pond?
 - What are the important points to be considered for proposed water supply scheme?
 - Explain with neat sketch infiltration galleries in detail.
 - Explain logistic curve method.

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10
- What are infiltration wells? Explain with neat diagram.
 - Explain the following types of refuse;
 - Garbage
 - Rubbish
 - Ashes
4. Attempt any *one* part of the following: 10 x 1 = 10
- Discuss the various techniques for rural water supply.
 - Explain the National Rural Drinking Water program.
5. Attempt any *one* part of the following: 10 x 1 = 10
- Explain in detail about solid waste management.
 - Discuss with neat sketch for slow sand filter and chlorine diffusion cartridges.
6. Attempt any *one* part of the following: 10 x 1 = 10
- Explain the treatment of solid waste by using bio-gas plant.
 - What is the role of government for rural sanitation? What are the National Policies which govern rural water supply?
7. Attempt any *one* part of the following: 10 x 1 = 10
- Explain the trenching and composting methods in detail.
 - Explain epidemiological aspects of water quality in detail.