



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

PAPER ID : 197851

Roll No.

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B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15 SUSTAINABLE AGRICULTURE, BUILDING AND SANITATION

Time : 3 Hours]

[Total Marks : 100

Note : Attempt **all** questions.

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

- (a) Discuss Importance of Sustainable Agriculture. Briefly discuss the various practices of Sustainable Agriculture.
- (b) What is meant by "Watershed"? Discuss the characteristics of a watershed. Discuss at least two conservation practices for watershed development and management.
- (c) Discuss status of surface and ground water scenario in Indian context. Discuss the importance of conjunctive use of Surface and ground water.

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

- (a) Discuss the importance of Post Harvest technology in India.

- (b) Discuss Importance of Bio-fertilizer & Organic manure in Agricultural field.
- (c) Difference between Vermi-composting & Composting. Also discuss the Importance of Legume.

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

- (a) Discuss the Importance of Sanitation in Indian Context. Briefly describe various practice adopted in community Sanitation.
- (b) Briefly discuss the Sulabh's Sanitation Technology.
- (c) Define Infant mortality rate and childhood mortality rate. Discuss the status of infant mortality in India.

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

- (a) What is meant by Energy Efficient building ? Discuss in brief the various factors to be considered in designing and energy efficient house.
- (b) Discuss the aspects of Passive Solar designing of buildings.
- (c) Briefly describe the Indian Green Building rating system.

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

- (a) Briefly describe the basic technical criteria for selection of sustainable water harvesting techniques.
- (b) List Various component of Rain Water Harvesting (RWH) System. Draw neat diagram of Rainwater harvesting System.
- (c) Compare between Slow sand & rapid sand Filter in RWH System.