

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

BRDM (2014 & Onwards) (Sem.-4)
MANAGEMENT OF LAND AND WATER RESOURCES
Subject Code : BBA-425
Paper ID : [72778]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of FOUR Sub-sections : Units-I, II, III & IV.
3. Each Sub-section contains TWO questions each, carrying TEN marks each.
4. Student has to attempt any ONE question from each Sub-section.

SECTION-A

1. Answer briefly :

- A. Pedogenesis.
- B. Biological properties of soil.
- C. Principles of Agronomy.
- D. Watershed.
- E. Low cost technologies for water management.
- F. Environmental stress.
- G. Causes of soil erosion.
- H. Use of fertilizer.
- I. Composting.
- J. Rain water harvesting and recycling.

SECTION-B

UNIT-I

2. Describe the processes of soil formation and how do the physical chemical and biological properties improve the soil health.
3. What are the cultural practices, vegetative barriers and pre-fabricated structure for soil and water conservation measures?

UNIT-II

4. Explain soil testing concept, its importance for soil health and to reduce the cost of production.
5. Describe straight, complete and complex fertilizers and how does the use of fertilizers improve yield of maize, sugarcane, wheat and rapeseed & mustard.

UNIT-III

6. Explain the people participation in the catchment and command area of watershed and ways and means for increasing income collectively.
7. What are the sources of water, its functions and use for different agri-based enterprises?

UNIT-IV

8. Describe the scope of dry land agriculture in Indian context. And explain the technological development for sustaining the crop yield.
9. What are the cost effective technologies for land and water conservation along with their contribution for reducing the environment stress?