

CSM – 6/18
Agriculture
Paper – I

Time : 3 hours

Full Marks : 300

The figures in the right-hand margin indicate marks.

*Candidates should attempt Q. No. 1 from Section – A and Q. No. 5 from Section – B which are compulsory and any **three** of the remaining questions, selecting at least **one** from each Section.*

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SECTION – A

1. Answer any **three** of the following in about **200** words each : 20×3 = 60
- (a) Explain the reasons for low productivity of pulses in India and describe the strategies to improve the yield potential.

- (b) What are the different weed control methods ?
Explain the management practices to control parasitic weeds.
- (c) Give an account of Agroforestry practices for wasteland development.
- (d) What are the prospects of organic farming ?
Describe the methods and techniques of organic waste recycling.
2. Define Water use efficiency and the methods to improve WUE. What do you understand by water budgeting ? Explain in detail. 60
3. List out the different concepts of nutrient management and the tools used. Define NUE. Describe the significance and enhancement techniques of slow release N fertilizers. 60
4. What are the erosion control measures for agricultural lands ? Mention the ways of conserving soil moisture through Rain water harvesting. Describe the technologies for stabilizing the agricultural production in rainfed areas. 60

SECTION – B

5. Write short notes on any **three** of the following in **200** words each : 20×3 = 60

(a) The agricultural extension targets which group of farmers and discuss the mechanisms followed to reach such target groups.

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(b) Market Intelligence : Discuss it's importance and status under the Indian agricultural scenario.

(c) What do you mean by Global Warming ? Explain the major causes for global warming and explain the remedial measures.

(d) What is IPR ? Mention the IPR policies and patenting in India. Discuss about the significance of IPR in relation to agriculture.

6. Doubling the Indian farmers income : Comment and explain the ways and means to achieve the goal through farm planning. 60

7. Discuss, in detail, the role of Cooperative in improving the livelihood of Indian Farmers. 60
8. Describe the strategies and challenges of Farm mechanization in India. 60

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