

**17228****21314**

3 Hours/100 Marks

Seat No.

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**Instructions :** (1) **All** questions are **compulsory**.(2) Answer **each** next main question on a **new** page.(3) Figures to the **right** indicate **full** marks.

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**MARKS**

1. Answer **any five** : **(5×4=20)**
- a) Describe method of sowing.
  - b) Explain classification of soil, based on their characteristics.
  - c) i) Define :
    - 1) soil fertility      2) soil productivity
  - ii) State reasons for loss of soil fertility.
  - d) State characteristics of water.
  - e) Explain principle of weed management.
  - f) Define harvesting. State criteria for harvest maturity.
  - g) Define and classify manures.
2. Answer **any two** : **(2×8=16)**
- a) i) What are legume crops ? Give two examples. **2**
  - ii) Name cereal crops. Write characteristics of any two cereal crops. **6**
  - b) i) Define organic farming. Explain components of organic farming.
  - ii) Define sustainable farming. State its limitations.
  - c) i) Explain meaning of :
    - 1) mono cropping   2) sole cropping.
  - ii) Describe sequence cropping system.
3. Answer **any two** : **(2×8=16)**
- a) i) Define :
    - 1) evaporation      2) transpiration **2**
  - ii) Explain factors affecting evaporation and transpiration. **6**
  - b) i) Write critical periods for weed control in different crops. **3**
  - ii) Describe a method of weed removal. **5**
  - c) Explain method of calculation of manure and fertilizer requirements for crops.

**P.T.O.**



## MARKS

4. Answer **any two** : **(2×8=16)**
- a) Explain with examples, classification of crops based on :
    - i) utility
    - ii) economy
  - b) i) Explain criteria for scheduling crop irrigation.
    - ii) Describe origin of S-W monsoon.
  - c) i) Write origin and soil requirements of any two field crops.
    - ii) Name two pesticides used for crops. Outline a method of pest control.
5. Answer **any two** : **(2×8=16)**
- a) i) Explain effect of tillage on texture of soil. **3**
    - ii) Explain factors affecting preparatory cultivation. **5**
  - b) Describe influence of weeds on crop production.
  - c) i) Explain principle of relay-cropping. **3**
    - ii) Define :
      - 1) animal husbandry
      - 2) intercropping. **2**
    - iii) State effect of different parameters on plant growth. **3**
6. Answer **any four** : **(4×4=16)**
- a) Define and give two examples, each of :
    - i) seasonal-crop,
    - ii) cash-crop.
  - b) Distinguish between primary tillage and secondary tillage.
  - c) Define bulk density of soil. Explain its importance.
  - d) Name different forms of clouds. Write characteristics of any one form of cloud.
  - e) State uses of weeds.
  - f) Describe seasonwise crop arrangement of field.
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