

- Q.25 Give four tips for safe storage and better handling of fertilizers.
- Q.26 Illustrate the principle of crop rotation with examples.
- Q.27 Highlight the importance of diversification of agriculture.
- Q.28 Explain the crop production as an art and science.
- Q.29 Write a short note on integrated pest management.
- Q.30 List different operations required for raising horticultural crops.
- Q.31 Give four advantages of mixed cropping.
- Q.32 Write a short note on vermicomposting.
- Q.33 Describe the mechanical method of weed control.
- Q.34 Write four disadvantages of using inorganic fertilizers.
- Q.35 How the soil fertility can be maintained?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain in detail the different methods of sowing/ seed placement.
- Q.37 Classify the plant nutrient elements and their importance.
- Q.38 What are different methods of tillage? Explain the effect to tillage on soil characteristics and nutrient availability.

No. of Printed Pages : 4
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180131

**3rd Sem / Agri Engg.
Subject:- Crop Production**

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which one of the following does not relate to horticultural crops?
a) Pinching b) Pruning
c) Grafting d) Winnowing
- Q.2 Which crops fix nitrogen in the soil
a) Cereal crops b) Pulses
c) Fiber crops d) None of the above
- Q.3 The crops which are grown in winter
a) Kharif b) Rabi
c) Zaid d) Monsoon
- Q.4 Which one of the following is the weed control method
a) Mechanical Eradication
b) Biological
c) Agronomic practices
d) All of the above

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180131

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180131

- Q.5 Major crop of Haryana state is
a) Lentil b) Mustard
c) Rice d) Bajra
- Q.6 The process of applying water to the plants is called
a) Irrigation b) Requirement
c) Duty d) Rotation
- Q.7 Water requirement of crop is equal to
a) Irrigation
b) Evapo-transpiration losses of water
c) Consumptive use of water
d) Rainfall + Irrigation requirement
- Q.8 The process of applying water to the plants is called
a) Irrigation b) Requirement
c) Duty d) Rotation
- Q.9 On slopy land, the best cropping system to be followed is:
a) Mix cropping b) Cover cropping
c) Strip cropping d) Multiple cropping
- Q.10 Which one of the nutrients is fixed by the leguminous crops in the soil
a) Potassium b) Nitrogen
c) Phosphorus d) Calcium

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 The process of mechanical manipulation of soil is called _____.
- Q.12 Define Plucking.
- Q.13 _____ crops fix nitrogen in the soil.
- Q.14 What do you mean by interculturing.
- Q.15 Give two examples of oilseed crops.
- Q.16 _____ method is used for groundnut harvesting.
- Q.17 Name any two cereal crops.
- Q.18 Define crop diversification.
- Q.19 Apiculture is related to bees. (True/False)
- Q.20 Primary objective of puddling in rice cultivation is to minimize the _____.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What are the critical stages of water application to plants?
- Q.22 Describe different methods of irrigation.
- Q.23 What are the factors affecting the seed germination.
- Q.24 Give four advantages of organic farming.