

- Q.10 By the introduction and release of which natural enemy in USA biological control of cottony cushion scale has been successfully done in southern India ?
- Q.11 Whole of the hygroscopic water (-10000) plus a part of the capillary water below the wilting point (-15 bar) is known as_____.

Answer ANY 06 questions out of the given 08 questions

(6x2 = 12)

- Q.12 Write the significance of horticultural crops in nutritional security.
- Q.13 How flood irrigation is different from check basin method?
- Q.14 What are primary nutrients? Write examples of primary nutrients.
- Q.15 What is soil productivity?
- Q.16 Define Integrated Pest Management.
- Q.17 Write any two functions of phosphorous in plants.
- Q.18 What is simple and complex fertilizer? Give an example of each.
- Q.19 Write the water requirement of rice and maize.

SECTION - B (5x3 = 15)

Answer ANY 05 out of given 07 Questions.

- Q.20 What is pulsing? Name the chemical that is commercially used for pulsing treatment of flowers.
- Q.21 Explain the role of biological control method in IPM.
- Q.22 Explain about radiation treatment in vegetables with any two example.
- Q.23 What is integrated nutrient management? Enlist its components.
- Q.24 Write the significance of bio-fertilizers in maintaining soil fertility.
- Q.25 What is water requirement of crop? Write the formula.
- Q.26 What is hygroscopic water?

SECTION-C (5x5=25 marks)

Answer ANY 05 questions out of the given 06 questions.

- Q.27 What is organic farming? Write the principles of organic farming.
- Q.28 What is zero energy cool chamber? Explain its structure with diagram.
- Q.29 Write the difference between manure and fertilizer.
- Q.30 Explain about border and strip method of irrigation with diagram. Which crops can be irrigated by this method?
- Q.31 Explain the role of calcium magnesium and sulfur in plants.
- Q.32 Explain about National project on Organic farming. Write the advantages of organic farming.

