

## I. Choose the correct answer.

(7 × 1 = 7)

- The crops which are sown in the rainy season are called \_\_\_\_\_ crops.  
a) Rabi            b) Kharif            c) Zaid            d) None of these
- Which of the following is not present in Panchagavya?  
a) Sugar            b) Cow's urine            c) Cow dung            d) Curd
- \_\_\_\_\_ is the largest producer of Bananas and Mangoes.  
a) Thailand            b) Pakistan            c) Sri Lanka            d) India
- \_\_\_\_\_ is a better solution for economical use of water.  
a) Sprinkler            b) Drip            c) Surface            d) Furrow
- The fruits of leguminous plants are called \_\_\_\_\_.  
a) Simple            b) Aggregate            c) Legume            d) None of these
- The method in which water flows over the soil surface and allow it to infiltrate is \_\_\_\_\_.  
a) Surface irrigation            b) irrigation  
c) Sprinkler irrigation            d) Drip irrigation
- The Levelling of soil is done with an implement called the \_\_\_\_\_.  
a) Hoe            b) Cultivator            c) Leveller            d) Ploughshare

## II. Fill in the blanks.

(7 × 1 = 7)

- There are over \_\_\_\_\_ species of weeds around the world.
- The process of actively growing seedling from one place and planting in the main field for further growth is called \_\_\_\_\_.
- The crops which are grown in winter season are called \_\_\_\_\_.
- \_\_\_\_\_ is an agricultural tool used to till the land, remove weeds and dig up soil.
- The chemicals used for killing the seeds or inhibiting their growth are called as \_\_\_\_\_.
- \_\_\_\_\_ seeds transfer its unique characteristics to the descents.
- The another name of Zaid crops are \_\_\_\_\_.

## III. State True or False.

(6 × 1 = 6)

- Lichen is a natural bio – indicator of climate change and air pollution effect.
- Leguminous plants have nodes in their roots.
- Vermiwash is a solid excretory product.
- Trichoderma viride* is a bacteria used as a biological pesticide.
- Tender coconut is one of the ingredients of Panchagavya.
- The objective of FCI (Food Corporation of India) is distribution of food grains throughout the country.

## IV. Match the following.

(5 × 1 = 5)

- |                      |                                 |
|----------------------|---------------------------------|
| 21. Bio - repellants | - <i>Bacillus thuringiensis</i> |
| 22. Bio – indicators | - Improve soil fertility        |
| 23. Bio - fertilizer | - Quality of environment        |
| 24. Bio - predator   | - Neem leaves                   |
| 25. Bio - Pesticide  | - Control white flies           |

## V. Give very short answers.

(10 × 1 = 10)

- Name the modern methods of irrigation.
- What are the two methods used in crop production.
- Name the place where seeds are stored in order to preserve genetic diversity.
- Expand IARI.
- What was the earlier name of “Acharya Jagadish Chandra Bose Indian Botanic Garden” located in Kolkatta?
- I am a mixture of soil, compost and plant seeds. Who am I?
- Write the combination of five products obtained in Panchagavya.
- Name any two fibre crops.
- What is the use of “Fodder crops”?
- What are the two immediate post – harvest practices?

## VI. Answer any eight of the following in brief.

(8 × 2½ = 20)

- (Question No. 46 is Compulsory)
- Name the methods of sowing.
  - Define ploughing.
  - What is green manure?
  - What do you mean by weeding.
  - Give a brief account on Krishi Vigyan Kendra.
  - What is bio - indicator?
  - What is foliar spray?
  - How does the bio – indicator help human beings?
  - What is crop rotation?
  - How microorganism that are harmful to crops, pests and insects are controlled?
  - Expand : a) ICAR            b) EM technology
  - Fill up: The black knee \_\_\_\_\_ is an insect found on \_\_\_\_\_ trees. It eats more than \_\_\_\_\_ fruit tree \_\_\_\_\_ mites per \_\_\_\_\_.

## VII. Answer any two of the following in detail.

(2 × 5 = 10)

- Give a detailed account on irrigation.
- Explain the agricultural practices with the help of a flow chart.
- What is weed? Explain the different methods of weed control.
- Write the Glossary for the following.  
i) Broadcasting            ii) Monoculture            iii) Seed bank  
iv) Dibbling            v) Sprinkler Irrigation

## VIII. Hots.

(2 × 2½ = 5)

- Why the leguminous plants have nodules in its root system?
- Why are we preferring foliar feedings instead of nutrients applied to soil?

## IX. Picture based questions.

(2 × 2½ = 5)

- Draw a neat labelled sketch of the root system of a leguminous plant.
- Draw the logo of “ICAR”.

