

## Chapter 01

# Crop Production and Management

### 1 Mark Questions

1. The pair of crops which are sown during the rainy season are  
(a) maize, wheat and soyabean      (b) gram, pea and linseed  
(c) soyabean, cotton and paddy      (d) groundnut , mustard and gram
2. Farmers before sowing the seeds, spend most of the time in loosening the soil. This helps  
(a) roots to breathe easily  
(b) growth of soil friendly organisms  
(c) stopping deeper penetration of roots  
(d) crushing of big lumps in soil
3. Which one of the following plant is preferred for mixed cropping in order to enhance the availability of nitrogen in soil and cultivated crops?  
(a) Wheat      (b) Gram      (c) Barley      (d) Paddy
4. Flooding of an agricultural field is also a method used for irrigation. However, it often results in negative impacts.

erosion of top soil, damaged soil profile, loss of soil texture, water logging, hardening of soil, reduced set up cost.

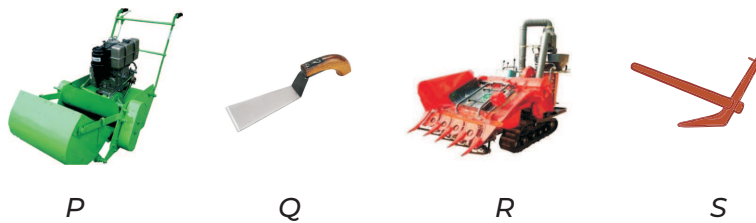
How many of the processes listed above can be identified as a consequence of this method?

- (a) 4                      (b) 2                      (c) 5                      (d) 3

5. Crops are often attacked by a variety of pathogens which causes diseases and ultimate death of plants. Given below are some crop diseases and their causal organisms. Select the option which identified the correct match.

- (a) White rust–Bacteria                      (b) Black rot–Fungi  
 (c) Tobacco mosaic–Virus                  (d) Red rot–Nematode

6. The figures P - S depicts some tools which are used very commonly in the cultivation of crops.



Select the correct option which identifies the correct sequence in which the above shown tools are used.

- (a) P, Q, R, S                                      (b) S, Q, P, R  
 (c) Q, S, R, P                                      (d) R, S, Q, R

7. Match the following columns and select the correct option.

Column I	Column II
A. Weeds	1. 2, 4-D
B. Chemical pesticide	2. <i>Xanthium</i> sp
C. Manure	3. <i>Rhizobium</i>
D. Nitrogen fixation	4. Animal excreta and plant wastes

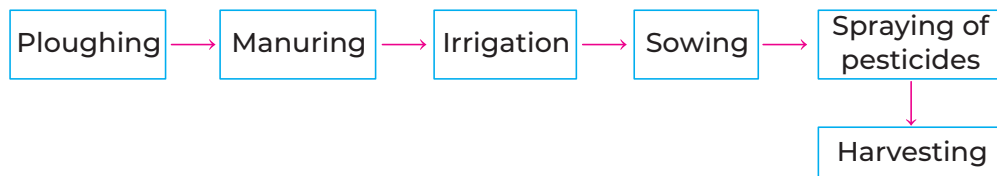
Codes

- |     |   |   |   |   |     |   |   |   |   |
|-----|---|---|---|---|-----|---|---|---|---|
|     | A | B | C | D |     | A | B | C | D |
| (a) | 1 | 2 | 3 | 4 | (b) | 3 | 1 | 4 | 2 |
| (c) | 2 | 1 | 4 | 3 | (d) | 4 | 3 | 1 | 4 |

8. Anika added some bean seeds in a container filled with water. After some time, some seeds come up and start floating on the surface of water. Which of the following can be identified as a conclusion for this activity?
- (a) Seeds floating on water are damaged as they are hollow as compared to the healthy seeds
  - (b) Healthy seeds being lighter are capable of floating on water's surface
  - (c) There is no healthy or damaged seed, some seeds can just naturally float on water
  - (d) This method can be used to separate heavy and lighter seeds
9. While visiting her grandfather's farm Advika observed that farmers were removing some plants growing along with the main crops in the field. The most probable reason for this activity could be
- I. Preventing the over crowding of plants.
  - II. Over crowding often results in dying out of main crops.

**Codes**

- (a) Statement I is correct
  - (b) Statement II is correct
  - (c) Statements I and II are incorrect
  - (d) Statements I and II are correct
10. Manav listed the steps involved in agricultural process as shown below

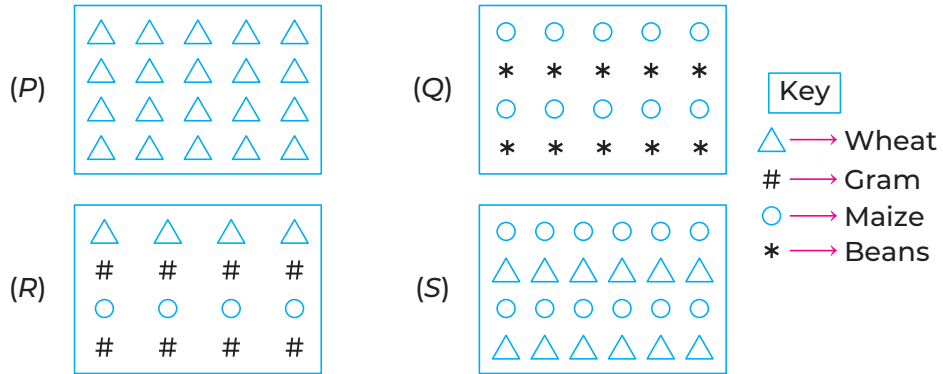


Refer to these steps and select the correct statement regarding them.

- (a) Spraying of pesticides is done only on harvested crops
- (b) Manuring can be done at the starting and almost all stages of agriculture process before harvesting
- (c) Irrigation of field should not be done before the seeds are sown
- (d) Sowing of seeds is followed by ploughing of the field

## 2 Marks Question

11. In which of the following agricultural fields (P-S), which are cultivating the crops year after years in the pattern shown below.



**Codes**

- |                |             |
|----------------|-------------|
| (a) P and Q    | (b) R and S |
| (c) P, Q and R | (d) Q and R |

12. Raman and his two friends Kishan and Pawan are working on their agricultural field and following the sequence of events listed below to obtain a good harvest.

**Raman** He loosened the soil, added manure and sowed the seeds. Lastly he sprayed chemicals to protect the crops.

**Kishan** He ploughed his fields, added manure, planted seeds, irrigated the field and added pesticides.

**Pawan** He sowed seeds, irrigated the field sprayed pesticides as and when needed.

Who among the three will get the best harvest?

- |            |                     |
|------------|---------------------|
| (a) Kishan | (b) Raman           |
| (c) Pawan  | (d) Raman and Pawan |

13. State whether the following statements are true [T] or false [F].

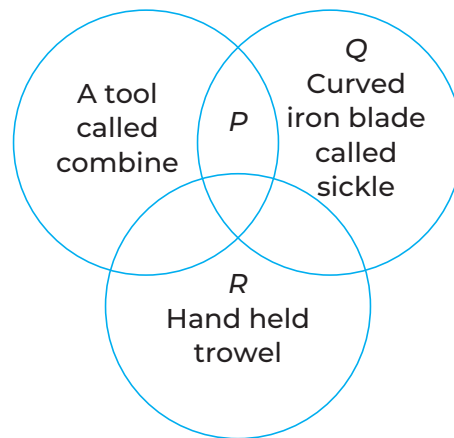
- I. Continuous cultivation of crops makes soil nutrient deficient.
- II. Rabi crops are grown in the summers between June to November.

- III. Manures can damage the soil structure.
- IV. Drip irrigation is beneficial in places which are facing water shortage.
- V. Dried neem leaves, turmeric roots protect food grains in silos and granaries.

**Codes**

	I	II	III	IV	V
(a)	T	F	T	F	T
(b)	T	F	F	T	F
(c)	F	T	T	F	T
(d)	F	T	F	T	F

- 14.** Refer to the Venn diagram given below and select the correct option for the process. *P*, *Q* and *R*.



- (a) Process *Q* could be threshing where grains are separated from the crops, while *P* could be winnowing.
- (b) Process *P* represents harvesting where matured crops are collected from the field with using a trowel.
- (c) *R* represents the process of removing plants growing along side the main crops using a trowel.
- (d) Process *P*, *Q* and *R* uses combine, sickle and trowel for the process of loosening of the soil.

**15.** Ram has been diligently adding generous quantities of chemical fertiliser in his agricultural field for a long time. However, the result he expected has not occurred. Instead of high yield the crop production from his farm it has been steadily decreasing.

Given below are some possible reason for this.

- I. Soil has become overly acidic.
- II. Soil has become overly alkaline.

Which of the following strategy can help him recover his crop yield?

- P. Adding more organic matter to agricultural soil.
- Q. Adding slaked lime to the agricultural soil.
- R. Soil adding more salt to soil.

Which of the following option indicates a correct match?

- (a) I and P
- (b) II and Q
- (c) I and Q
- (d) II and R

### Answers

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- |         |         |         |         |         |        |        |        |        |         |
|---------|---------|---------|---------|---------|--------|--------|--------|--------|---------|
| 1. (c)  | 2. (a)  | 3. (b)  | 4. (a)  | 5. (c)  | 6. (b) | 7. (c) | 8. (a) | 9. (d) | 10. (b) |
| 11. (d) | 12. (a) | 13. (b) | 14. (c) | 15. (d) |        |        |        |        |         |
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