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IBPS SO AGRICULTURE FIELD OFFICER QUIZ – 8

Directions: Study the following questions carefully and answers the questions given below:

1. Who is known as the father of weed science?

- A. Jethro Tull B. Stephen Switzer C. William Benson
D. Mary Choate E. None of the above

2. The harmful effect that one plant has on another via production of chemicals is known as –

- A. Heterotelergone B. Allomone C. Allelopathy
D. Antixenotics E. None of the above

3. Which of the following seeds are mixed with mustard seeds to adulterate it and which also causes the disease dropsy?

- A. Tannin B. Argemone Mexicana C. Anemone nemorosa
D. Arnica Montana E. None of the above

4. The weed 'Echinochola colonum' affects which of the following crops?

- A. Wheat B. Rice C. Peas
D. Tomato E. Maize

5. The weed 'Chenopodium album' affects which of the following crops?

- A. Rice B. Millets C. Peas
D. Ragi E. Potato

6. The weed 'Saccharum spontaneum' affects which of the following crops?

- A. Maize B. Rice C. Wheat
D. Mustard E. Cotton

7. Tomato is adversely affected by which of the following weeds?

- I. Agropyron portulaca
II. Cenchrus ciliaris
III. Chenopodium album

- A. Only I B. Only II C. Only III
D. Only II and III E. Only I and III

8. The weed 'Cenchrus ciliaris' affects which of the following crops?

- A. Brinjal B. Wheat C. Pearl millet
D. Mustard E. Cotton

9. The weed 'Agropyron repens' affects which of the following crops?

- A. Cotton B. Sweet pea C. Moong dal
D. Wheat E. Sugarcane

10. The type of seed dormancy that occurs due to deeper placement of seed than is needed is known as –

- A. Enforced dormancy B. Innate dormancy C. Primary dormancy
D. Induced dormancy E. None of the above

Correct answers:

1	2	3	4	5	6	7	8	9	10
A	C	B	B	C	A	E	C	D	A

Explanations:

1.

Jethro Tull was an English agricultural pioneer from Berkshire who helped bring about the British Agricultural Revolution. He perfected a horse-drawn seed drill in 1700 that sowed the seeds in neat rows. He later developed a horse-drawn hoe. Tull's methods helped to provide the basis for modern agriculture.

Hence, option A is correct.

2.

Allelopathy is a biological phenomenon by which an organism produces one or more biochemicals that influence the germination, growth, survival, and reproduction of other organisms. These biochemicals are known as allelochemicals and can have beneficial (positive allelopathy) or detrimental (negative allelopathy) effects on the target organisms and the community. Allelochemicals are a subset of secondary metabolites, which are not required for metabolism (i.e. growth, development and reproduction) of the allelopathic organism.

Hence, option C is correct.

3.



Argemone Mexicana seeds: It is also called Mexican poppy, flowering thistle, cardo or cardosanto. These seeds contain 22–36% of a pale yellow non-edible oil, called argemone oil or katkar oil, which contains the toxic alkaloids sanguinarine and dihydrosanguinarine. Katkar oil poisoning causes epidemic dropsy, with symptoms including extreme swelling, particularly of the legs.

Hence, option B is correct.

4.

The weed 'Echinochola colonum' affects Rice.

Hence, option B is correct.

5.

The weed 'Chenopodium album' affects Peas.

Hence, option C is correct.

6.

The weed 'Saccharum spontaneum' affects Maize.

Hence, option A is correct.

7.

Both Agropyron portulaca and Chenopodium album effect the crop tomato.

Hence, option E is correct.

8.

The weed 'Cenchrus ciliaris' affects Pearl Millet.

Hence, option C is correct.

9.

The weed 'Agropyron repens' affects wheat.

Hence, option D is correct.

10.

Enforced dormancy occurs due to placement of weed seed deeper than 5 cm, resulting from tillage. It is caused by the absence of red (r) light under the soil surface. This red light induces the germination in seeds by activating their phytochromesystem (P) – chromophore blue pigment attached to the protein molecule in the seeds. The far red (Fr) light deactivates the system and thus induces dormancy in weeds. This type of dormancy does not persist when the environment changes.

Hence, option A is correct.



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