Agricultur & Soil Comboned

2023

HPSC

Time: 3 hours]

[Maximum Marks: 150

QUESTION PAPER SPECIFIC INSTRUCTIONS

(Please read each of the following instructions carefully before attempting questions)

- (i) There are eighteen (18) questions, all printed in English only.
- (ii) Candidate has to attempt any fifteen (15) questions in all.
- (iii) Each question carry ten marks.
- (iv) Word limit in questions, wherever specified should be adhered to.
- (v) Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question will be counted even if attempted partly. Any page or portion of the page left blank in the question-cumanswer booklet must be clearly struck off.
- (vi) Answer to the questions must be confined only to the space provided for each question. No extra/additional sheet will be provided.
- (vii) Answer must be written in the authorized medium. No marks will be given for answers written in a medium other than the authorized one.

1.	What are the different types of male sterility usually found in crop plants? Enumerate with examples. (Word limit 300)	10
2.	Write your understanding of Soil Health Card Programme launched by the Government of India, the progress achieved so far and your suggestions for its improvement, if any. (Word limit 300)	10
3.	Briefly explain the role and responsibilities of KVKs in India. (Word limit 300)	10
4.	Give an overview of Integrated Weed Management. (Word limit 300)	10
5.	What is greenhouse effect? Describe the phenomenon of global warming. (Word limit 300)	10
6.	Differentiate between C-3 and C-4 plants. (Word limit 300)	10
7.	Agroforestry enhances productivity on a sustainable basis. Substantiate. (Word limit 300)	10
8.	Explain how salicylic acid and jasmonic acid play a vital role in plant defense. (Word limit 300)	10
9.	What are the applications and benefits of precision agriculture? (Word limit 300)	10
10.	What are the physiological disorders of tomato and their remedies? (Word limit 300)	10
11.	What is mutation breeding? Discuss the role of mutation breeding in crop improvement with suitable examples in context of India. (Word limit 300)	10
12.	How can the use efficiency of N, P and K fertilizers be enhanced in crop	10

13.	What are all soil and water conservation techniques practised in dryland area? (Word limit 300)	10
14.	Explain Intellectual Property Rights and measures taken by the Government of India to protect the rights of breeders and farmers. (Word limit 300)	10
15.	Differentiate between mass selection and bulk method of selection. (Word limit 300)	10
16.	Briefly explain the global initiatives taken up to address the global climate change. (Word limit 300)	10
17.	How are plantations useful to meet energy requirements in India? (Word limit 300)	10
18.	What are pesticide formulations and their mode of action? (Word limit 300)	10