

CC/M/EXAM.
2020
AGRICULTURE
PAPER—I

Time : 3 hours]

[Full Marks : 250

Note : Question Nos. **1** and **5** are compulsory and out of the remaining, *any three* are to be attempted choosing at least ONE question from each section. The number of marks carried by a question/part is indicated against it.

SECTION—A

1. Answer *any five* of the following questions : 10×5=50
- (a) Describe an efficient cropping system for some important North Eastern States (at least three N-E States).
 - (b) Why is watershed management important in agriculture?
 - (c) Illustrate the importance and principle of organic farming. Discuss in the light of North Eastern States.
 - (d) Write briefly about the foodgrain scenario of India.
 - (e) Illustrate the various food security missions of India.
 - (f) Describe the environment and factors affecting crop distribution and production in India.
 - (g) Discuss the role and importance of dry land agriculture in India.
2. Answer the following questions :
- (a) What is organic farming? Mention the drawbacks of practicing organic farming. What are the steps to be taken to implement organic farming in large scale? 20
 - (b) What do you mean by herbicide resistance in plants? How do you manage it? What are the steps you would follow to remediate it? 15
 - (c) What do you mean by soil pollution and soil degradation? What are the steps to be followed to eradicate soil pollution? 15

3. Answer the following questions :

- (a) Discuss nitrogen transformation and its management in submerged rice production. 20
- (b) Mention the weed management practices in rice and pulses. 15
- (c) Discuss the systems and methods of irrigation. 15

4. Answer the following questions :

- (a) Elaborate the ways to increase fertilizer use efficiency. 20
- (b) Why is crop diversification more beneficial than traditional monoculture system? 15
- (c) What is soil erosion? How does soil erosion take place? Discuss. 15

SECTION—B

5. Answer *any five* of the following questions :

10×5=50

- (a) Define minimum support price (MSP). Briefly discuss the factors involved in the calculation of MSP.
- (b) What is Kisan Credit Card scheme? Discuss the role of KCC in terms of Indian farmers.
- (c) Write briefly about the crop insurance scheme. Discuss its advantages and disadvantages.
- (d) What will be the impact of increasing population on food and agriculture in India?
- (e) What are the impacts of climate change on agriculture? How can the impacts be mitigated in crop environment?
- (f) Write briefly about the marketing channels of horticultural crops of India.
- (g) What do you understand about Natural Resource Management? Discuss.

6. Answer the following questions :

- (a) State the hindrances in farm mechanization in north-east agriculture. Write about the advantages of farm mechanization. 20
- (b) What is farm labour? Explain reasons for their low efficiency and write measures to improve the efficiency of farm labour. 15
- (c) Elaborately discuss about farm planning and budgeting. 15

7. Answer the following questions :

- (a) Write briefly about the frontline demonstration and method demonstration. 20
- (b) Discuss the importance of Farmer Producer Organization (FPO) scheme. 15
- (c) Discuss the role and importance of Krishi Vigyan Kendra (KVK) in the context of rural livelihood. 15

8. Answer the following questions :

- (a) What do you mean by Targeted Public Distribution System (TPDS)? Who are the specially focussed groups covered under this programme? 20
- (b) Discuss briefly about the regulated market and cooperative marketing. 15
- (c) Discuss the current status and scope of contract farming. 15
