

2020

AGRICULTURE

(Theory)

Full Marks : 70

Pass Marks : 21

Time : Three hours

All the questions are compulsory.

The figures in the right margin indicate full marks for the questions.

1. Answer by choosing the most appropriate answer from the given options :

1×4=4

(i) Plant cells differ from animal cells by the presence of :

- A. Mitochondria
- B. Nucleus
- C. Cell wall
- D. None

(ii) IDDP is implemented in India to increase production of :

- A. Egg
- B. Milk
- C. Meat
- D. None of the above

P.T.O.

(iii) Maximum humidity is usually obtained during which time ?

- A. Mid night
- B. Early morning
- C. Evening
- D. After sunset

(iv) In which unit yield of field crops are usually expressed ?

- A. kg/ha
- B. kg/ac
- C. t/ha
- D. t/ac

2. Answer the following very briefly within *two* sentences :

1×10=10

- (i) Define DNA.
- (ii) Mention *two* breeds of indigenous cattle.
- (iii) Define primary tillage with an implement used for it.
- (iv) Write *two* important diseases of cattle.
- (v) Differentiate between weather and climate.
- (vi) What are the different methods of hand milking ?
- (vii) How does Kissan Credit cards benefit farmers ?
- (viii) What do you mean by Hay ?
- (ix) Write *two* important H. Y. Vs each of rice and pea grown in Manipur.
- (x) Write *two* breeds of exotic dairy cattle.

3. Write short notes on in about 30 words each :

2×10=20

- (a) Brooding of chicks
- (b) Water management in wheat
- (c) Role of agronomy in agriculture
- (d) Dairy development programme in India
- (e) Feeding schedule of calf
- (f) Mendal's Law of inheritance
- (g) Utilization of animal wastes
- (h) Conservation tillage
- (i) Scope of floriculture
- (j) Training of grapes

4. Answer shortly the following questions at your own in about 50 – 60 words each.

3×7=21

- (a) 'Indian agriculture is gambled with monsoon'. Justify the given statement.
- (b) 'Indian Economy is dependant on agriculture'. Give comment with proper reasons to support your comment.
- (c) Wirte in brief the concept of Anand pattern of co-operative system of milk procurement and marketing.
- (d) How milk can be produced hygienically for safe human consumption ?
- (e) What is meant by co-operative farming ? Mention its advantages.
- (f) Illustrate a plant cell with proper lelabelling of the different components.
- (g) Explain the processes of meiosis cell division.

Answer the following questions 5 – 7 in about 100 – 120 words each.

5. How sick animals can be identified ? Write the general preventive and control measures of livestock and poultry diseases in an animal farm. 2+3=5

Or

What are the different housing systems in dairy cattle ? Write in details on any one of the housing system. 1+4=5

6. Define certify seeds. Explain the importance of it in agriculture. 1+4=5

Or

Write package of practices for cultivation of either wheat or cabbage or banana. 5

7. Discuss the role of hybridization in modern agriculture. Mention two important points of its disadvantages. 3+2=5