

2 0 1 9

AGRICULTURE

(Vocational Course)

Full Marks : 30

Time : 1 hour

The figures in the margin indicate full marks for the questions

Choose and write the correct answer (Question Nos. **1** to **8**) : $1 \times 8 = 8$

1. Which among the following technologies is/are used for minimizing the post-harvest losses?

- (a) Waxing
- (b) Irradiation
- (c) Both (a) and (b)
- (d) None of the above

2. Which among the following fruits is non-climacteric fruit?

- (a) Apple
- (b) Banana
- (c) Guava
- (d) Litchi

(2)

- 3.** Chemicals used for hastening and delaying ripening of fruits and vegetables are
- (a) 2,4-D
 - (b) 2,4, 5-T
 - (c) All of the above
 - (d) None of the above
- 4.** Which country is world leader in tea production?
- (a) China
 - (b) Brazil
 - (c) USA
 - (d) Malaysia
- 5.** India's rank in world fruit production is
- (a) first
 - (b) second
 - (c) third
 - (d) fourth
- 6.** Which country is world leader in fruit production?
- (a) China
 - (b) India
 - (c) Spain
 - (d) Israel

(3)

7. Method of pasteurization :

- I. HTST method (high temperature and short-time above 70 °C)
 - II. LTH method (low temperature and higher time)
- (a) Only I
(b) Only II
(c) Both (a) and (b)
(d) None of the above

8. Class-I preservative is

- (a) common salt
(b) benzoic acid
(c) Nisin
(d) None of the above

Write very short answer-type questions (Question Nos. 9 to 12) : 1×4=4

9. What is a nursery?

10. Define biofertilizer.

11. Define mulching.

12. Define irrigation.

(4)

Write short answer-type questions (Question Nos. **13** to **15**) : $2 \times 3 = 6$

- 13.** What are plant growth regulators? Give two examples.
- 14.** Define soil. Mention any two physical properties of soil.
- 15.** Write down the difference between pasteurization and sterilization.

Write any *three* of the long answer-type questions (Question Nos. **16** to **20**) : $4 \times 3 = 12$

- 16.** What is plant nutrition? How can nutrient be classified as macro- and micro-nutrient?
- 17.** What are manures? Write down the classification of organic manures.
- 18.** What are fertilizers? Give example for each of the different types of fertilizers.
- 19.** What are the different causes of post-harvest losses?
- 20.** What are the technologies used for minimizing post-harvest losses?
