

SECTION A (20 MARKS)

1. C
2. C
3. A
4. B
5. B
6. D
7. B
8. A
9. C
10. D
11. A
12. A
13. D
14. D
15. A
16. D
17. C
18. B
19. A
20. C

SECTION B (30 MARKS)

21.

(a) Soil pollution is the contamination of soil by harmful substances that reduce its quality and productivity.

(b) Causes of soil pollution:

- i. Excessive use of chemical fertilizers
- ii. Dumping of household waste or plastics

22.

Factors contributing to surface runoff:

- i. Steep slope of the land
- ii. Bare soil with no vegetation cover
- iii. Heavy rainfall intensity

23.

(a) Ways of conserving vitamins in vegetables:

- i. Cook for a short time using minimal water (steaming)
- ii. Avoid overcooking vegetables

(b) Importance of conserving food nutrients:

To maintain good health and provide the body with essential nutrients.

24.

Environmental benefits of planting trees:

- i. Prevent soil erosion
- ii. Provide shade and windbreak
- iii. Improve air quality by producing oxygen

25.

Factors considered when adopting tilth in clay soil:

- i. Soil moisture content
- ii. Drainage and aeration needs
- iii. Type of crop to be planted (tomatoes require well-prepared soil)

26.

(a) Tool used in thinning:

Hand hoe / knife

(b) Reasons for thinning:

- i. To reduce competition for nutrients, water, and light
- ii. To provide proper spacing for healthy growth

27.

(a) Planting material shown:

Seedling (or young plant cutting – depending on diagram)

(b) Requirements of planting material:

- i. Must be healthy and disease-free
- ii. Must have strong roots and be vigorous

28.

Precautions when sorting and grading eggs:

- i. Handle eggs gently to avoid cracking
- ii. Ensure hands and containers are clean
- iii. Sort eggs according to size and quality carefully

29.

(a) Equipment used in grilling:

- i. Grill or roasting rack
- ii. Tongs or skewers

(b) Reason for preferring grilling:

It reduces fat content and enhances flavour while cooking quickly.

30.

(a) Hygiene practices in animal rearing:

- i. Cleaning animal housing regularly
- ii. Providing clean food and water

(b) Importance of hygiene in animal rearing:
It prevents diseases and improves animal health and productivity.

