



10. *In wheat field some broad-leaved weeds were seen by a farmer, which plant hormone would you suggest to get rid of the same?*  
[ ] 2: 4-D and 2,4:5T [ ] Florigen  
[ ] Cytokinin [ ] Ethylene

SECTION "B"  
[10Q. × 1 = 10 marks]

**Fill in the blanks.**

11. \_\_\_\_\_ Antiaging hormone.
12. In certain plants, seeds do not germinate immediately after harvest even under favourable conditions for seed germination due to, \_\_\_\_\_
13. The potential energy of water is referred to as \_\_\_\_\_
14. \_\_\_\_\_ mineral elements is less soluble and comparatively immobile in soil \_\_\_\_\_
15. Main force for ascent of sap in higher plants is \_\_\_\_\_
16. Metabolic energy is required in \_\_\_\_\_
17. The transfer of sugars from mesophyll cells to sieve tube elements in leaf is called as, \_\_\_\_\_
18. Chylomicrons contain \_\_\_\_\_
19. Quantasomes are \_\_\_\_\_
20. IAA is \_\_\_\_\_

KATHMANDU UNIVERSITY  
End Semester Examination  
September 2024

Level : B.Sc.  
Year : I  
Time : 2 hrs. 30 mins.

Course : AGRS 105  
Semester : II  
F. M. : 55

20 sep 2024  
SECTION "C"  
[5Q. × 5 = 25 marks]

Attempt *ANY FIVE* questions.

1. What do you mean by crop physiology? Mention the scopes of crop physiology.
2. Write the differences between prokaryotic crops and eukaryotic crops.
3. What are the differences between aerobic respiration and anaerobic respiration?
4. What do you mean by photoperiodism? How does short day crops differs from the long day crops?
5. Write the importance of passive absorption in crops.
6. How Munch's hypothesis is most convincing hypothesis for translocation of solutes?

SECTION "D"  
[3Q. × 10 = 30 marks]

Attempt *ANY THREE* questions.

7. Define photosynthesis, illustrate the mechanisms of light dependent photosynthesis.
8. What do you understand by macronutrients? Mention their major functions.
9. Explain why transpiration in higher plants is considered a necessary evil.
10. How is drought stress management helpful for the growth and development of crops?

