

B.Sc.(Hons) Part III (1+1+1 System) Practical examination 2020

Paper VII

Time: 2hrs

I. Answer the following questions

FM: 60

1. Write two differences between transpiration and evaporation? 2
2. What is RQ? 2
3. What is DPD? 2
4. What is incipient plasmolysis? 2
5. What is Vant Hoff's Law? 2
6. How does dry weather affect transpiration? 2
7. At which photochromatic range Phtosynthetic activity is highest. 2
8. Differentiate between 1M and 1N solution of sucrose. 2
9. Why fatty seeds do takes up less water that starchy seeds in a certain time? 2
10. What is Q_{10} ? 2
11. What is stomatal index? 2
12. What is Molish's test? 2
13. Write a confirmatory test for reducing sugar? 2
14. What is reducing and non-reducing sugar? 2
15. Difference between Fehling I and II? 2
16. Write the confirmatory test for Citric acid? 2
17. What is Molish's reagent? 2
18. Why ammonium molibdate (10%) is required during the analysis of plant ash? 2
19. What is double staining? Name one. 2
20. What is mounting medium? Name one. 2
21. Name two adaptive anatomical features of hydrophytes. 2
22. Write two identifying characters of cystolith. 2
23. Mention two identifying features of aleurone grains. 2
24. What are the chemical tests for tannin in *Camellia sinensis*? 2
25. Mention two characteristic features of Zingiber in powder microscopy. 2
26. How can you identify curcumin in *Curcuma longa* by histochemical test? 2
27. Write two characteristic features of *Holarrhena* in powder microscopy. 2
28. How can you measure the catalase activity of a sample? 2
29. Write the test for detection of Calcium from plant ash. 2
30. Name two plant sources where you find Citric acid and malic acid respectively? 2

