

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

**Paper VIII**

**Time 2hrs**

**I. Answer the following questions**

**FM: 60**

1. What is pretreatment? 2
2. What is karyotype? 2
3. Differentiate between squash and smear preparation? 2
4. What is mitotic index? 2
5. What is the function of oil in oil immersion lens? 2
6. Differentiate between meiotic Telophase I and II. 2
7. What is ring chromosome? Where do you find it? 2
8. Write two characteristic features of leptotene? 2
9. What is sticky bridge? 2
10. State two characters of laggard Chromosome? 2
11. Write two characters of Mitotic Metaphase? 2
12. Name the composition of PDA medium. 2
13. What are the temperature and pressure used in sterilization by autoclave? 2
14. What are slants and stabs? 2
15. Write the steps isolate pathogens from diseased leaf? 2
16. What is subculturing? 2
17. Write two identifying characters of brown spot of rice. 2
18. What is the causal organism of stem rot of jute? 2
19. Name the pathogen of late blight of potato. 2
20. Mention two identifying characters of uredial stage of *Puccinia graminis*. 2
21. How can you identify aecial stage of *Puccinia graminis*? 2
22. What is nutrient broth? 2
23. Name the counter stain used in gram staining? 2
24. Write the steps of gram staining? 2
25. Write the name of bacteria mostly found in sour curd? 2
26. What is standard deviation? Write the formula? 2
27. What is Chi-square test? 2
28. What do you mean by degree of freedom? 2
29. What is the significance of the value of 3.84 in Fischers' Probability table? 2
30. Suggest the inheritance pattern obtained from the ratio 9:7. 2