QP CODE: 24019281

24019281

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, MAY 2024

Second Semester

B.Sc Biological Techniques and Specimen Preparation Model III

Core Course - ZB2CRT04 - GENERAL BIOLOGICAL TECHNIQUES

2017 ADMISSION ONWARDS

15A78D0C

Time: 3 Hours Max. Marks : 60

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Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is defined as the ability to see two neighboring points in a field as distinct entities?
2. Which part of a microscope is responsible for collecting light rays previously focused on the specimen?
3. Define fluorescence microscope.
4. Where do we obtain the magnified image of the specimen in SEM?
5. What is camera lucida?
6. What is agarose electrophoresis (AGE)?
7. What is pH?
8. What is monochromator?
9. Define Pour plate technique.
10. Name any two liquid culture media of bacteria.
11. Name two liquid culture media for protozoa.
12. Define ionizining radiation.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Define magnification and total magnification.

14. Write the uses of stereoscopic microscope.

15. How does the TEM differ from the SEM in terms of function?

16. Explain Affinity chromatography.

17. What is colorimeter? Mention its uses.

18. Define X-ray crystallography and mention its uses .

19. What is the importance of identification of microorganisms?

20. Give the composition of MacConkey Agar.

21. What is stock culture? Mention two methods.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Explain the Principle, working & applications of Phase contrast microscope .

23. Explain the principle, procedure uses of micrometry.

24. Write in detail the principle & applications of Centrifuge.

25. Explain different methods employed for measuring microbial growth.

(2×10=20)