

C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),
MELVISHARAM - 632 509.
SEMESTER EXAMINATIONS, NOVEMBER - 2018
B.Sc., ZOOLOGY
SEMESTER V
U15EZL501 – BIOINSTRUMENTATION (ELECTIVE – I)

Time: Three Hours

Maximum: 75 Marks

SECTION - A (10 X 2 = 20 Marks)

Answer **ALL** Questions.

1. Fluorescence Microscope.
2. Resolving power.
3. Relative centrifugal force.
4. Calomel electrode.
5. Cuvettes.
6. Thermal Conductivity Detector (TCD).
7. Sterilization.
8. Crystal violet.
9. Beta mercaptoethanol.
10. Southern blotting.

SECTION - B (5 X 5 = 25 Marks)

Answer **ALL** Questions.

11. a) Explain the Light Microscope in detail.
(Or)
b) Explain the Polarized Microscope.
12. a) Explain the types of centrifuge.

(Or)

b) Explain the pH meter in detail.

13. a) Explain the principle and applications of Thin Layer Chromatography.

(Or)

b) Explain the principle and applications of Spectrophotometer.

14. a) Explain the principle and procedure of Gram staining method.

(Or)

b) Write a note on the Autoclave.

15. a) Explain the ELISA technique in detail.

(Or)

b) Explain the Western Blotting.

SECTION - C (3 X10 = 30 Marks)

Answer **ANY THREE** Questions.

16. Explain the Electron Microscope in detail.
17. Write an essay on Cryopreservation.
18. Explain HPLC techniques in detail.
19. Explain the components of tissue culture media and types of Cell culture.
20. Explain the principle and applications of SDS Polyacrylamide Gel Electrophoresis.
