

School of Biomedical Science

Department of Biomedical Science

Mid Term Examination

Exam Date: 01 Oct 2023

Time : 90 Minutes

Marks : 50

Sem V -C2UH504T - Bioinstrumentation

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Infer the relation between numerical aperture and resolution. K2 (2)
- 2) Show the effect of heavy metals on protein solubility. K1 (3)
- 3) Explain the process of salting out of a protein. K2 (4)
- 4) Illustrate how detergents help in cell disruption. K2 (8)
- 5) Identify how osmotic shock can be utilized in sample preparation. K3 (6)
- 6) Use an experiment to explain the use of phase contrast and fluorescence microscopy. K3 (9)
- 7) Categorize different types of light microscopy explaining each of them. K4 (8)
- 8) Examine the process of sample preparation for mass-spectrometer of a protein sample. K4 (12)

OR

Analyze different methods used for precipitation of proteins. K4 (12)