

ADMISSION NUMBER											

K1 (3)

School of Biomedical Science

Master of Science in Forensic Science Mid Term Examination - Nov 2023

Duration : 90 Minutes Max Marks : 50

Sem I - Q1PQ103T - Advanced Bio-Chemical Instrumentation

<u>General Instructions</u> Answer to the specific question asked Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

1)	Classify the centrifugation on the basis of speed. Also write the	K2 (2)						
	significance of each type of centrifugation method.							

²⁾ Define principle of centrifugation.

 Explain the technique of differential centrifugation with suitable K2 (4) diagram.

4) Differential centrifugation can segregate different cell organelle based K² (6) on their size and density by successively increasing the centrifugal force. Summarize!!

5) How can you identify the alkaloid present in datura seed using TLC? K3 (6) Explain!

- 6) Construct a roadmap for the separation of an unknown solution using K3 (9) density gradient method of centrifugation.
- ⁷⁾ Classify the chromatography depending upon any three different ^{K4 (8)} parameters.Provide suitable example of each.
- 8) Write in detail how antigens are disguished from antibodies? Name K4 (12) different types of antibodies with their functions.

OR

Analyse given coccain sample using HPLC. K4 (12)