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School of Biomedical Science**Master of Science in Forensic Science
Semester End Examination - Nov 2023****Duration : 180 Minutes
Max Marks : 100****Sem III - MFS27T3102 - Forensic Serology and DNA Profiling**General Instructions*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) Tell about the IgM. K1 (2)
- 2) Explain the phenol extraction method K2 (4)
- 3) Illustrate the STR. K2 (6)
- 4) Construct the steps of DNA Fingerprinting. K3 (9)
- 5) Identify the experimentation of DNA typing of micro-satellites. K3 (9)
- 6) Identify the experimentation of DNA typing of micro-satellites. Explain the criteria for the selection of specified experiment. K5 (10)
- 7) Analyse the role of RFLP, SSLP and RAPD. K4 (12)
- 8) Determine the difference in radial diffusion and Double immuno diffusion? K5 (15)
- 9) Justify the purpose of Rh factor in blood. Deduct the biosynthesis and mechanism of bombay blood group. K5 (15)
- 10) You have reached at the scene of crime where you have observed that there are blood spatter pattern in the form of drips, equidistance, circular in the hall. In the kitchen. Blood spatter is observed on the walls and in the bedroom the blood spatter is spread all over the wall and ceiling. identify a) no. of victims. b) sequence of wounds c) type of weapon d) velocity of spatter. Predict or answer with reasons. K6 (18)