

IV. SYLLABUS

Unit 1: Basic Instrument Handling Techniques

Weighing balance, microscope, spectrophotometer, Spirometer, sphygmomanometer, stethoscope, Haemoglobinometer, pH meter, preparation of solutions maintaining pH and molarity/normality

Unit -2: Diagnostic methods used for Blood Analysis

Blood grouping, percentage of Haemoglobin, bleeding time – clotting time, Total leukocyte count, Differential leukocyte count, RBC count, blood pressure, blood sugar

UNIT -3: Diagnostic methods used for Urine Analysis

Test of Urine sugar, Test of Urine bile, pregnancy test, alkaline phosphatase assay, SGOT assay, SGPT assay, protein assay

UNIT -4: FIRST- AID

CPR, Snake bite, Insect Bite, Crocodile bite, Accidental burning, handling electric shock, chemical hazards in laboratory

SUGGESTED READINGS:

1. Veerakumari L. (2015). Bioinstrumentation. MJP Publishers.
2. Ministry of Health and Family Welfare, Govt. of India (2016). Standard Treatment Guidelines. Management of Snake Bite
3. Gupta, P.P and Gupta, N. (2016) Essentials of Practical Biochemistry. Jaypee Brothers Medical Publishers
4. Wilson, K. and Walker, J. (2010) Principles and Techniques of Biochemistry and Molecular Biology. 7th Edition. Cambridge University Press.
5. Lyons, F. & Ousley, L. (2015) Dermatology for the Advanced Practice Nurse. Springer Publishing Company.
6. Jones, S.A (2016) First Aid, Survival, and CPR. F.A Davis Company.

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