

SR & BGNR GOVT. ARTS AND SCIENCE COLLEGE (A), KHAMMAM



DEPARTMENT OF ZOOLOGY

2021-2022



- Skill Enhancement Course
- with Hands on Experience
- by Experienced Personnel



Certificate Course
in

CLINICAL PATHOLOGY



CLINICAL PATHOLOGY THEORY SYLLABUS

(Total instruction hours 30)

MODULE-I

1. Introduction, history and scope of clinical pathology.
2. Introduction to Bio-chemistry.
3. Code of ethics for medical lab technicians.

MODULE-II (Structure and pathogenicity of Protozoan parasites)

- 1) Entamoeba histolytica
- 2) Plasmodium

MODULE-III (Structure and pathogenicity of Helminth parasites)

- 1) Ascaris lumbricoides
- 2) Schistosoma haematobium
- 3) Wucheraria bancrofti

MODULE-IV (HAEMATOLOGY)

- 1) Blood Sample collection
- 2) Blood groups
- 3) Blood cell counting
- 4) Estimation of haemoglobin

MODULE-V (IMMUNOLOGY)

- 1) Types of immunity, immune responses
- 2) Hypersensitivity
- 3) Cytological examination of diseased tissue, Biopsy and autopsy

CLINICAL PATHOLOGY PRACTICAL SYLLABUS

1. Estimation of haemoglobin (Sahlis haematin method)
2. Urine analysis - sugar (Benedicts reagent method)
3. Urine analysis-(10 parameters using automatic urine analyser Strip method)
4. Erythrocyte Sedimentation Rate (ESR)
5. Platelet count
6. **Microscopic examination of parasites**
 - 1) Entamoeba histolytica
 - 2) Plasmodium
 - 3) Entamoeba histolytica
 - 4) Taenia solium
 - 5) Schistosoma haematobium
 - 6) Wucheraria bancrofti

Lab technician Mr.RAJU explaining the procedure of ESR to students



Lab technician Mr.RAJU explaining the procedure of ESR to students



Teaching and non-teaching staff getting their blood groups identified



Students identifying Blood Groups

