

**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR
WOMEN (TTWRDCW) SURYAPET**

COURSE: DIAGNOSIS TECHNIQUES Academic Year – 2021-22

Total Teaching Hours: 45 hours

Total Marks: 50

Course Objectives

- To enhance knowledge about physiology
- To help who are preparing for any type competitive examination
- To increase the chance of employability.
- To improve practical knowledge

Course Outcomes

On successful completion of the course the students will be able to:

- Understand the basic concepts of of heart ,
- Understand the basic concepts of blood grouping
- Acquire knowledge about Diabetes
- Compete in various competitive exams like CUCET, CPGCET etc.

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Syllabus

UNIT- I: PHYSIOLOGY OF HEART

- Overview of heart
- Heart
- Heartbeat
- Cardiac cycle.
- Regulation of heart pumping
- Electrocardiogram
- Blood pressure and its regulation

UNIT- II: INTRODUCTION TO BLOOD

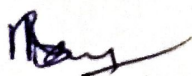
- Composition of blood, its formation and functions
- Collection of blood different routes
- Structure and functions of Hemoglobin
- Hemopoiesis
- Hemostasis and Blood Coagulation
- Hemoglobin normal and abnormal values
- Hemoglobin estimation by Sahli's method
- Clinical Importance
- Blood grouping
- Rh factors

UNIT- III: DIAGNOSIS OF DIABETES


- Classification, Diagnosis and Presentation diabetes
- Regulation of blood glucose in humans
- Mechanism of blood glucose, absorption, storage
- Glucose regulation in the body
- Structure of Pancreas
- Role of pancreas in the blood glucose
- Prediabetes and diagnosis of Diabetes
- Pharmacotherapy of Diabetes
- Diabetes in special population

Reference books:

- A Text book of Hematology by Dr. Chand Pasha
- Comparative Anatomy of Vertebrates by V.K Agarwal.


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