

AmbujaNeotia



**THE NEOTIA
UNIVERSITY**

ज्ञानम् आत्म प्रदीपाय

UGC Enlisted & Recognised

Department of Physiotherapy

School of Health Science

Bachelor of Physiotherapy

(BPT)

Physiology I

Practical Manual

Course Code: BPT 172

Certificate

This is to certify that Mr./Ms. with
UID number of Bachelor of
Physiotherapy Semester 3rd has satisfactorily completed the practical prescribed by
the Neotia University for the year

.....
Signature of Student

.....
Signature of Faculty

Date of Submission:

Practical Manual in Physiology,

BPT 1st Semester

Course Code-172

Sl no	Experiment no	Name of the Experiment	Procedure
1	1	Microscope Microscopy	Description of parts of compound microscope & their function, adjustment, magnification, resolution and procedure of microscopy.
2	2	Drawing of blood film (Drawing of thin layer of blood on glass slide)	Principle, Requirements & Procedure.
3	3	Staining of blood film & Study of morphology of blood cells.	Principle, Requirements, Procedure, Observation.
4	4	Determination of DC (Differential count of WBC/Leucocytes)	Principle, Requirements, Procedure, observation, result, utility
5	5	Determination of TC (Total count of leucocytes)	Principle, Requirements, Procedure & Utility
6	6	Determination of RBC count (Total count of Erythrocytes)	Principle, Requirements (eg-Hemocytometer, pipette), Procedure & observation, Utility.
7	7	Estimation of Hemoglobin concentration (HB%)	Principle, Requirements (eg-Hemoglobinometer), Procedure, result, utility.
8	8	Determination of Blood Group (O, A, B, AB, Rh factor)	Principle, Requirements, Procedure, observation, utility.
9	9	Measurement of ESR (Erythrocyte Sedimentation Rate)	Principle, Requirements (Westergen tube, Pipette), Procedure (Westergen Method, Wintrobe' method), observation, utility.
10	10	Determination of BT (Bleeding time)	Principle, Requirements, Procedure, result, Utility.
11	11	Determination of CT (Coagulation time)	Principle, Requirements, Procedure, result, Utility.
12	12	Breath Holding	Principle, Requirements, Procedure
13	13	Mercury Column Test	Principle, Requirements, Procedure

Reference books: 1) Manual of Practical Physiology- by Dr. A. K. Jain (ARYA PUBLICATION)

2) Practical Physiology—by N. Geeta (Jaypee Brothers)

3) Practical Physiology: by Kapoor (CBS Publication).

NB: All students and teachers must wear an apron, mask, gloves, and sanitize shoe in sanitary lotion or use separate shoes before entry in the laboratory. Strictly maintain social distance (6 ft. apart from each other). Bags not allowed. Use an individual instrument after sanitization (Don't share it with others).