



RAN - 1807000101030001

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First year B. H. M. S. Examination

November / December - 2019

Human Physiology & Biochemistry: Paper-I

[Total Marks: 100

सूचना : / Instructions

(1)

नीचे दृश्यावले निशानीवाणी विगतो उत्तरवली पर अवश्य लपवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

☛ **First year B. H. M. S.**

Name of the Subject :

☛ **Human Physiology & Biochemistry: Paper-I**

Subject Code No.: **1807000101030001**

Seat No.:

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Student's Signature

- 2) All questions are compulsory.
- 3) Figure to the right indicate full marks.
- 4) Write both section separately.

SECTION-I

1 Name the different cells of blood. Describe structure & functions of Platelets. 15

OR

1 Describe in detail Morphology, development & functions of Agranulocytes. Write a note on its Applied Physiology. 15

2 Describe Cardiac Cycle in detail 15

OR

2 (1) Properties of Cardiac Muscle 8

(2) Chemical Regulation of Blood Pressure. 7

- 3 Short Notes (Any three) 15**
- (1) Endoplasmic Reticulum
 - (2) Osmosis
 - (3) Functions of Haemoglobin
 - (4) Valves of Heart
 - (5) Function of Spleen

- 4 Answer in one word or sentence. 5**
- (1) What are different types of Plasma Protein
 - (2) Define Bleeding Time & Clotting Time
 - (3) Define Systolic and Diastolic Blood Pressure
 - (4) What is the Synonym of Left Atrio-Ventricular Valve?
 - (5) Define Tissue

SECTION-II

- 1 Describe Nervous Regulations of Respiration in detail. 15

OR

- 1 Describe transport of Carbon Dioxide in Blood from tissue to lungs in detail.

- 2 What is GFR ? What is its normal value ? Which are the different Factors affecting it ?

OR

- 2 (1) What is counter Current Mechanism ?
Described it's in detail. 8
- (2) Peculiarities of Renal Blood Circulation. 7

3 Write Short Note (Any three) 15

- (1) Role of Hypothalamus in regulation of body temperature
- (2) Dead space
- (3) Functions of kidney.
- (4) Abnormal Constituents of Urine
- (5) Surfactant

4 Answer in word or sentence. 5

- (1) What is vital capacity ?
 - (2) Which are the structures of Juxtaglomerular Apparatus?
 - (3) Define sarcomere
 - (4) Give three functions of skin
 - (5) Site & function of heat gain center
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