



BB-1807000101030001 Seat No. _____

First Year B. H. M. S. Examination

April - 2022

Physiology & Biochemistry : Paper - I

Time : 3 Hours]

[Total Marks : 100

नीचे दृश्यावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
First Year B. H. M. S.

Name of the Subject :
Physiology & Biochemistry : Paper - I

Subject Code No. : Section No. (1, 2,.....) : NIL

1 8 0 7 0 0 0 1 0 1 0 3 0 0 0 1

Seat No. :

Student's Signature

- Instruction: 1) Write in neat handwriting.
2) Figures to the right Indicate full marks
3) Write both Section Separately.

Section-I

1. Define Blood, Clot, Serum, Plasma, Bleeding Time, Coagulation time, 15
Name the Coagulating factors. Write down extrinsic Mechanism of
Blood Coagulation in detail.

OR

Define Leucopoiesis. Write down differences between Leucocytes and
Erythrocytes. Describe Leucopoiesis in Detail.

2. Describe Cardiac cycle with a neat Labeled diagram. 15

OR

- a) Describe Junctional tissues of Heart. 08
b) Describe circulation of Blood with neat Labelled diagram 07

3. Short Notes (Any Three) 15

- a) Functions of Spleen
b) Functions of Platelets
c) Mitochondria
d) Endoplasmic reticulum
e) Factors affecting Cardiac Output

4. Answer in One Word / sentence/ fill in the blanks. 05

- a) Normal value of Prothrombin time is _____.
b) The Largest WBC is _____.
c) Heart sound were discovered by _____.
d) _____ are called as protein factories.
e) Define osmosis.

Section-II

- 1 Describe in detail Nervous Regulation of Respiration **15**
OR
- 1 Describe Lung volumes and Capacities in detail with diagram of spirometer. **15**
- 2 Name the steps of Urine formation. Describe Glomerular Filtration in detail with note on GFR . **15**
OR
- 2 Write**
- A. Renin Angiotensin mechanism **08**
B. Micturation Reflex **07**
- 3 Write short notes on: (Any three) 15**
- (a) Functions of Kidney
(b) O₂ dissociation curve
(c) Regulation of Body Temperature
(d) Muscular Fatigue
(e) Dysbarism
- 4 Write the following- 05**
- (a) _____ is the volume of air remaining in the lung after forceful expiration.
(b) _____ Hypoxia is due to decreased velocity of blood .
(c) _____ pigment of skin protects against ultra-violet rays of sun.
(d) Nephron is _____ and _____ types
(e) _____ contributes half of the urinary solid as nitrogenous substance.
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