



ND-1807000101030001

First Year B.H.M.S. Examination

February - 2022

Physiology and Biochemistry : Paper-1

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दर्शाविए 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 and Biochemistry : Paper-1 Subject Code No. : 1 8 0 7 0 0 0 1 0 1 0 3 0 0 0 1 Section No. (1, 2,.....): 1&2	Seat No. : [][][][][][][] Student's Signature
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- (2) Write in neat handwriting.
- (3) Figures to the right indicate full marks.
- (4) Write both section separately.

Section-I

1 Name the Plasma, Proteins. Describe them in detail with note on their function. 15

OR

Define Blood Groups. Name the different types of Blood Groups. Explain Rh factor and write in detail about Rh Incompatibility. 15

2 Define heart rate, what is Marey's Law & Bainbridge Reflex. Name the various factors affecting Heart Rate. 15

OR

- (a) Renin-Angiotensin Mechanism of Blood Pressure Regulation. 8
- (b) Draw a neat labeled diagram of Cardiac cycle. 7
- 3** Write Short Notes on (Any Three) 15
- (1) Functions of Lymph
- (2) Ribosomes
- (3) Baroreceptors and Chemoreceptors
- (4) ESR
- (5) Nucleus
- 4** Answer the following 5
- (a) Life Span of RBC is _____.
- (b) Normal Cardiac Cycle time is _____.
- (c) Define packed cell volume.
- (d) Name the types of Endoplasmic Reticulum.
- (e) _____ is called as power house of cell.

Section-II

- 5** Describe in detail mechanics of Breathing. 15
- OR**
- 5** Describe CO₂ Carriage in detail. 15
- 6** Describe Tubular Reabsorption and Tubular secretion in detail. 15
- OR**
- 6** Write.
- (1) Normal constituent of urine. 8
- (2) Abnormal Constituents of Urine. 7

- 7 Write short notes on : (Any three) 15
- (a) JGA
 - (b) Alveoli
 - (c) Hypoxic Hypoxia
 - (d) Thermogenesis
 - (e) Rigor Mortis
- 8 Write the following 5
- (1) Total volume of air remains in lungs after normal expiration is _____.
 - (2) _____ Hypoxia is due to lack of cytochrome oxidase of cells.
 - (3) Melanin pigment of skin protects against _____ rays of sun.
 - (4) Full form of REF.
 - (5) Normal GFR value is _____ ml/minute.
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