

Paper / Subject Code: 1807000101030001 / PHYSIOLOGY (PAPER - I)

1807000101030001

First Year B.H.M.S.

Examination March -2023

Physiology & Biochemistry (Paper -I)

Seat No:

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Student's Signature

[Time: Three Hours]

[Max. Marks:100]

SECTION I

Q.1 Define Erythropoiesis. Describe in detail about stages and factor necessary for erythropoiesis 15

OR

What is immunity? describe in detail about Cell mediated immunity 15

Q.2 Define Cardiac output, stroke volume, Minute volume, cardiac index. Describe variations in cardiac output and factors maintaining cardiac output 15

OR

a. Heart Sound 8
b. Renin-angiotensin mechanism for regulation of blood pressure 7

Q.3 Short notes: Any three 15

1. Hb synthesis
2. Osmosis
3. Functions of R.E system
4. ECG leads
5. Endoplasmic retinaculum

Q.4 Answer as per Requirement 05

1. Normal Prothrombin time _____
2. Reserve Pacemaker is known as _____
3. Pernicious anemia is due to _____ deficiency
a. Vitamin A b. Vitamin D c. Vitamin B12 d. Vitamin B₆
4. AB +ve Blood contain which antibodies
a. A b. AB c. B d. None
5. the control unit of cell is _____
a. Nucleus b. Cell wall c. Cytoplasm d. All of these

SECTION II

Q.1 Explain Mechanics of Respiration in detail. 15

OR

Describe Transport of Respiratory gases. 15

Q.2 Describe Urine formation in detail

15

OR

1. Micturition
2. Acidification of urine

8

7

Q.3 Write short notes on: (any three)

15

- (a) Juxtaglomerular apparatus - Figure and structures
- (b) Functions of Skin
- (c) Classification of muscle tissue
- (d) Properties of Skeletal Muscle
- (e) Respiratory tract – structures

Q.4 Write the following as per requirement

05

- (a) Detrusor muscle is found in _____.
- (b) Temporary arrest of breathing is called _____.
- (c) GFR full form.
- (d) Define Refractory period.
- (e) Cardiac muscles are voluntary and non-striated muscles.
True or False