

1st Year B.H.M.S.

PRELIMINARY EXAMINATION

DATE- 01 /06/2020

Duration-3Hr

PHYSIOLOGY & BIOCHEMISTRY - PAPER – I

Total marks-100

Instructions:

- 1) Use **black / blue** point pen only.
- 2) Do not write anything on the **blank portion of the question paper**. If written anything such type of act will be considered as an attempt to resort to unfair means
- 3) **All** questions are **compulsory**.
- 4) The numbers to the **right** indicates **full** marks.
- 5) Draw diagrams **wherever** necessary.
- 6) Distribution of syllabus in Question paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is mere guideline .Questions can be asked from any papers syllabus in to any question paper .Students cannot claim that the Question is out of syllabus .As it is only for the placement sake, the distribution has been done.
- 7) Use the common answer book for all sections.

1. Write short answers (any ten out of Fifteen)

(10x2= 20)

- a) Name 4 organic constituents of blood.
- b) Name 4 conditions where ESR is increased
- c) Name 4 Blood groups systems
- d) Name 4 properties of cardiac muscle
- e) Define cardiac output
- f) Name 4 junctional tissue of heart
- g) Define surfactant
- h) What is O₂ carrying capacity of total blood?
- i) Name two respiratory center
- j) What are parts of Nephron
- k) What is Hypothermia & Hyperthermia
- l) Name 4 layers of epidermis
- m) What is function of sebaceous gland
- n) Define osmosis
- o) Define diffusion

2. Write short answers (any four out of Six) (4x5= 20)

- a) Anaemia
- b) Plasma protein
- c) Properties of Cardiac muscle
- d) ECG
- e) Lymph Node
- f) RES

3. Write short answers (any four out of six) (4x5= 20)

- a) Barrington's Micturition reflexes
- b) Renal Function test
- c) Lung volumes
- d) Functions of Skin
- e) Sweat gland

4. Long answers questions (any two out of four) (10x2=20)

- a) Blood group.
- b) Blood pressure control
- c) O₂ carriage & CO₂ carriage
- d) Body temperature control

Long answers questions (any one from Q. No. 5, 6, and 7) : (1x20=20)

5. WBC in detail

6. Describe Nephron

7. Describe Cardiac cycle with note on Heart sounds

1stYear B.H.M.S. PRELIMINARY EXAMINATION DATE- 03/06/2020
Duration-3Hrs PHYSIOLOGY & BIOCHEMISTRY - PAPER – II
Total marks-100

Instructions:

- 1) Use **black / blue** point pen only.
- 2) Do not write anything on the **blank portion of the question paper**. If written anything such type of act will be considered as an attempt to resort to unfair means
- 3) **All** questions are **compulsory**.
- 4) The numbers to the **right** indicates **full** marks.
- 5) Draw diagrams **wherever** necessary.
- 6) Distribution of syllabus in Question paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is mere guideline .Questions can be asked from any papers syllabus in to any question paper .Students cannot claim that the Question is out of syllabus .As it is only for the placement sake, the distribution has been done.
- 7) Use the common answer book for all sections.

1. Write short answers (any ten out of Fifteen) (10x2= 20)

- a) Name the hormones of Posterior Pituitary?
- b) Give one examples of endocrine and exocrine glands?
- c) Define local hormones. Write one example?
- d) What is peristalsis?
- e) What is Chyme?
- f) Write two functions of fats?
- g) Write types of nerve fibers?
- h) What is menopause?
- i) Define fertilization?
- j) Write name of four water soluble vitamins?
- k) Write source of Vitamin A?
- l) Write disorders due to deficiency of vitamin C?
- m) Define co – enzyme?
- n) Write two functions of CSF?
- o) What is Brocas area?

2. Write short answers (any four out of Six) (4x5= 20)

- a) Hypothyroidism.
- b) Functions of gastric juice.
- c) Digestion of carbohydrates.
- d) Neuro Muscular junction
- e) Gigantism & dwarfism.
- f) Regulation of blood sugar level.

3. Write short answers (any four out of six) (4x5= 20)

- a) Functions and deficiency of vitamin A
- b) Obesity
- c) Uterine cycle and hormones influencing it
- d) Reflex Arc
- e) Spermatogenesis
- f) Balance diet in children

4. Long answers questions (any two out of four) (10x2=20)

- a) Composition and functions of saliva.
- b) Posterior Pituitary
- c) What are receptors? write classification and properties of receptors.
- d) Deglutition

Long answers questions (any one from Q. No. 5, 6, and 7) : (1x20=20)

- 5. a. Define tracts. What are ascending tracts and descending tracts
- b. enumerate name of ascending tracts and descending tracts
- c. describe course & terminal of lateral spinothalamic tract
- d. write functions of lateral spinothalamic tract

6. Explain physiology of thyroid gland as following

- a. structure of thyroid gland and synthesis of thyroid hormones.
- b. functions of thyroid gland
- c. regulations and secretion of thyroid gland
- d. applied aspects.

- 7. Describe composition, properties, functions, phases of secretion, regulation of secretion gastric juice