

First B.H.M.S. (New) (2015) Examination, (Phase - III) Winter - 2021
PHYSIOLOGY INCLUDING BIOCHEMISTRY (Paper - I)
(BHMS-2015 syllabus is applicable to BHMS (New) Students)

Total Duration : Section A + B = 3 Hours

Section B Marks : 80

SECTION - B

- Instructions :**
- 1) Use **blue/black** ball 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 number 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 a mere guideline. Questions can be asked from any paper's syllabus into 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 a common answerbook for **all** sections.

2. Short Answer Questions (Solve any 4 out of 6): [4 × 5 = 20]
- a) Heart sounds
 - b) Haemoglobin
 - c) Functions of blood
 - d) Cardiac output
 - e) Functions of Reticulo endothelial system.
 - f) Diffusion

3. Short answer questions (Solve any 4 out of 6) : [4 × 5 = 20]
- a) Simple muscle curve
 - b) JGA
 - c) Nephron
 - d) Artificial respiration
 - e) Respiratory center
 - f) Structure of skin

4. Long Answer Questions (Solve any 2 out of 4) : [2 × 10 = 20]

a) What is ECG? Discuss its different waves and give importance of ECG.

OR

b) Discuss the different Blood groups. Add a note on Erythroblastosis foetalis.

c) Discuss the regulation of body temperature. Add a note on Pyrexia.

OR

d) What is Hypoxia? Discuss its various types and add a note on Altitude hypoxia.

Long Answer Questions (5,6,7) (Solve any 1 out of 3) : [1 × 20 = 20]

5. Discuss the different types of WBC with their morphology. Add a note on their functions.

6. Describe the mechanism of Micturition in details.

7. Discuss Oxygen transport in details. Add a note on Dissociation curve for Haemoglobin.



First B.H.M.S. (New)/(2015) Examination (Phase - III) Winter - 2021
PHYSIOLOGY INCLUDING BIOCHEMISTRY - II (Paper - II)

Total Duration : Section A + B = 3 Hours

Section B Marks : 80

SECTION - B

- Instructions :**
- 1) Use **blue/black** ball 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 number 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 a mere guideline. Questions can be asked from any paper's syllabus into 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 a common answerbook for all sections.

2. Short answer questions (Solve any 4 out of 6): [4 × 5 = 20]

- a) Balanced Diet.
- b) Action Potential.
- c) Properties of Reflexes.
- d) Beri - Beri.
- e) Vitamin K.
- f) Puberty.

- 3. Short answer questions (Solve any 4 out of 6):** [4 × 5 = 20]
- a) Basal Metabolic Rate.
 - b) Functions of Saliva.
 - c) Rods and Cones.
 - d) Pavlov's pouch.
 - e) Functions of Oxytocin.
 - f) Action of thyroxin.

- 4. Long Answer Questions (Solve any 2 out of 4):** [2 × 10 = 20]
- a) Describe the mechanism of Accomodation in human eye.

OR

- b) Describe in detail the process of Spermatogenesis.
- c) Describe composition, secretion, functions and regulation of Gastric juice.

OR

- d) Define Hormones. Name Hormones of Anterior Pituitary with functions in brief.

Long Answer Questions (5,6,7) (Solve any 1 out of 3): [1 × 20 = 20]

- 5. What is Synapse. Explain the structure, functions and properties of Synapse.
- 6. Enumerate the hormones of Adrenal Cortex. Describe the regulation of secretion and the physiological function of Gluco-corticosteroids.
- 7. Describe in detail Movements of Stomach.

