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DAB01NNNN102-P-1

First B.H.M.S. (New) / (2015) Examination, (Phase - II) Summer - 2022

PHYSIOLOGY INCLUDING BIOCHEMISTRY-I

(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) Functions of Reticulo-endothelial system
- c) Diffusion
- d) Composition of blood
- e) Special junctional tissues of heart
- f) ESR

**3. Short Answer Questions (Solve any 4 out of 6):** [4 × 5 = 20]

- a) Periodic breathing
- b) Glands of the skin
- c) Asphyxia

- d) Juxtaglomerular apparatus
- e) Glomerular filtration rate
- f) Neuromuscular junction

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

- a) What is normal body temperature? Describe the mechanism involved in regulation of body temperature.

OR

- b) Discuss mechanism of oxygen transport. Add a note on oxygen dissociation curve.
- c) Define cardiac output & its normal value. Describe the factors affecting cardiac output.

OR

- d) Describe the mechanism of coagulation. Add a note on coagulation Disorders.

**Long Answer Questions (Any one from Q.No. 5,6 and 7) [1 × 20 = 20]**

- 5. Classify blood groups. Explain ABO system & Rh factor in detail.
- 6. Describe the mechanics of respiration. Add a note on the respiratory muscles.
- 7. What is micturition? Describe the micturition reflex in detail.



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First B.H.M.S. (New)/(2015) Examination, (Phase - II) Summer - 2022  
PHYSIOLOGY INCLUDING BIOCHEMISTRY - II (Paper - II)  
(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) Vitamin C
- b) Rickets
- c) Neurotransmitters
- d) Functions of Hypothalamus
- e) Pregnancy Test
- f) Define Diet for adult man

- 3. Short Answer Questions (Solve any 4 out of 6) : [4×5=20]**
- a) Visual Acuity
  - b) Addison's Disease
  - c) Explain Pavlov's Pouch
  - d) Bile salts
  - e) Functions of Growth Hormone
  - f) Digestion of fats

- 4. Long Answer Questions (Solve any 2 out of 4) : [2×10=20]**
- a) Describe the various phases of Menstrual Cycle and their hormonal regulation.

OR

- b) Describe in detail movements of Gastrointestinal Tract.
- c) Describe the mechanism of Hearing and Auditory pathway.

OR

- d) Describe in detail functions and control of secretion of Thyroid Hormones.

**Long Answer Questions (Any one from Q. No. 5, 6 and 7) : [1×20=20]**

- 5. Describe the structure of Synapse. Explain the mechanism of transmission at Synapse. Enumerate different properties of Synapse.
- 6. Enumerate different Hormones of Anterior Pituitary. Explain the functions and effects of malfunction of Hormones of Anterior Pituitary.
- 7. Describe the process of Digestion and Absorption of Carbohydrates in the Gastrointestinal Tract.

