

**First B.H.M.S. (2015) (New) Examination, Summer (Phase - II) - 2019**  
**PHYSIOLOGY INCLUDING BIOCHEMISTRY - I**  
**(BHMS - 2015 Syllabus is Applicable to BHMS (New) Students)**

Total Duration : 3 Hours

Total Marks : 100

- 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.

1. Write short answer (**any ten** out of fifteen) : [10 × 2 = 20]
- a) Enumerate the factors influencing Erythropoiesis.
  - b) Name the Plasma Proteins.
  - c) What is Thalassemia?
  - d) Name the junctional tissues of Heart.
  - e) Define Blood Pressure.
  - f) Name the different waves in ECG.
  - g) Enumerate different lung capacities.
  - h) What is Asphyxia?
  - i) Name the renal Function tests.
  - j) Define micturition reflex.
  - k) What are the different modes of heat loss from the body?

- l) What is Ultrafiltration?
- m) Name the layers of the skin.
- n) What is Diffusion?
- o) Name the pigments of the skin.
2. Write short answer (**any four** out of six) : [4 × 5 = 20]
- a) Define ESR and state its significance.
- b) Blood Volume.
- c) Cardiac Output.
- d) Properties of cardiac Muscle.
- e) Functions of RE system.
- f) Formation and composition of Lymph.
3. Write short answer (**any four** out of six): [4 × 5 = 20]
- a) Normal Composition of Urine.
- b) Juxta Glomerular Apparatus
- c) Neurotransmitter
- d) Asphyxia.
- e) Pleural space and Pleural cavity.
- f) Functions of skin.
4. Long answer question (**any two** out of four) : [2 × 10 = 20]
- a) Explain the types and morphology of WBC in detail.
- b) Explain Cardiac cycle in detail with the help of a neat labelled diagram.
- c) Explain Anoxia in detail.
- d) Explain Body temperature regulation in detail.

Long answer question (**any one** from Q. No. 5, 6 and 7) :

5. Discuss the sites, stages & factors required for Erythropoiesis in detail.  
[1 × 20 = 20]
  
6. Explain the nervous & chemical regulation of respiration in detail.  
[1 × 20 = 20]
  
7. Discuss the factors affecting GFR in detail. [1 × 20 = 20]

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First B.H.M.S. (2015) (New) Examination, Summer (Phase - II) 2019  
PHYSIOLOGY INCLUDING BIOCHEMISTRY - II

(BHMS-2015 Syllabus is applicable to BHMS (New) students)

Total Duration : 3 Hours

Total Marks : 100

- Instructions :**
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1. Write short answer (**any ten** out of fifteen): [10 × 2 = 20]
- a) Name the hormones secreted by Thyroid
  - b) Define Hormone
  - c) Name the hormones of Posterior Pituitary
  - d) What is ~~z~~ptylism
  - e) Name two Bile Salts
  - f) Name the secretions of Stomach cells
  - g) Functions of Placenta
  - h) What is Puberty
  - i) Functions of Oxytocine
  - j) Hormone secreted by testis
  - k) What is vomiting
  - l) Name the water soluble vitamins.
  - m) Which vitamin is called Antisterility vitamin
  - n) What is Rickets.
  - o) What is xeropathalmia

2. Write short answer (**any four** out of six).

- a) Cretinism
- b) Write functions of ADH Hormone.
- c) Peristalsis
- d) Functions of Tongue
- e) Define & Classify Carbohydrates
- f) Kreab cycle

3. Write short answer (**any four** out of six):

[4 × 5 = 20]

- a) Vitamin B12
- b) Vitamin A
- c) Ovulation.
- d) Prolactin.
- e) Functions of Protiens
- f) Constituents of Balance diet.

4. Long answer question (**any two** out of four):

[2 × 10 = 20]

- a) Define and describe Spermatogenesis
- b) Myxodema
- c) Write Composition and functions of Gastric Juice
- d) Define synapse and explain its types & properties

**Long answer question (any one from Q. No. 5, 6 and 7):**

5. Describe regulation of blood sugar level in details.

[1 × 20 = 20]

6. Write Composition Funtions and Mechanism of Secretion of Saliva.

[1 × 20 = 20]

7. Write in details about Pathway of vision with refractory errors. [1 × 20 = 20]

