

**First BHMS (2015) (New) Examination, Winter
(Phase - III All Other remaining UG/PG Course) - 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) Define Blood.
 - b) Write the methods of estimation of ESR with normal values.
 - c) Name any four factors affecting blood volume.
 - d) Write the importance of 'P' wave of ECG.
 - e) Name the valves of heart.
 - f) What are the functions of SA node?
 - g) Classify hypoxia based on its causes.
 - h) Define respiration and name respiratory muscles.
 - i) Define GFR and write normal value of GFR.
 - j) What are types of nephron?
 - k) What is hypothermia?
 - l) What is the function of sebaceous glands?
 - m) What are layers of epidermis?
 - n) Define osmosis.
 - o) What is active transport?

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2. Write short answer (**any four** out of six) : **[4 × 5 = 20]**
- a) Hemoglobin
 - b) Plasma proteins
 - c) Radial pulse
 - d) Factors affecting cardiac output
 - e) Functions of spleen
 - f) Types and functions of RE cells.
3. Write short answer (**any four** out of six): **[4 × 5 = 20]**
- a) Juxtaglomerular apparatus
 - b) Renal circulation
 - c) Sarcomere
 - d) Asphyxia
 - e) Lung compliance
 - f) Sweat gland
4. Long answer question (**any two** out of four): **[2 × 10 = 20]**
- a) What is Rh factor and Rh incompatibility?
 - b) Describe the properties of cardiac muscle.
 - c) Describe O₂-Hb dissociation curve.
 - d) What is normal body temperature? How is it measured? Describe factors affecting body temperature.

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

5. Define erythropoiesis. Describe the different stages and its regulation in detail. **[1 × 20 = 20]**
6. What is spirometry? Describe different lung volumes and capacities. **[1 × 20 = 20]**
7. Describe the mechanism of formation of urine. **[1 × 20 = 20]**

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PHYSIOLOGY INCLUDING BIOCHEMISTRY - II

(BHMS - 2015 syllabus 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) Name the hormone secreted by pancreas
 - b) Define vomiting
 - c) What is function of testis
 - d) Name the hormones of ovary
 - e) Name the fat soluble vitamins
 - f) Enumerate the digestive juices
 - g) Name different salivary glands
 - h) Name different types of papillae
 - i) Enumerate the mixed endocrine glands
 - j) Define vitamins
 - k) What is function of FSH
 - l) What is function LH.
 - m) Which vitamin is called Anti-haemorrhagic vitamin
 - n) What is Menarchae.
 - o) What is scurvy

04112B

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

[4 × 5 = 20]

- a) Functions of Bile
- b) Dwarfism
- c) Functions of Stomach
- d) Tetany
- e) Biological value of proteins
- f) Function of Carbohydrates

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

[4 × 5 = 20]

- a) Rickets
- b) Beri-Beri
- c) Functions of Ovary
- d) Functions of Testosterone
- e) Krebs Cycle
- f) Obesity

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

[2 × 10 = 20]

- a) Enumerate hormones secreted by anterior pituitary and add a note on growth hormone
- b) Write composition functions and mechanism of Gastric Juice
- c) Define and describe Spermatogenesis.
- d) Define and Describe Neurone.

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 Functions and Mechanism of secretions of Salivary Juice.

[1 × 20 = 20]

7. Name the Special Senses and Describe the pathway of Taste impulses with applied.

[1 × 20 = 20]

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