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**First B.H.M.S. (New) (2015) Examination, Summer - 2021**  
**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.
  - 7) Use a common answer book for all Sections.

1. Write short answer (**any ten** out of fifteen) :

[10 × 2 = 20]

- a) Define Blood.
- b) Define Blood pressure.
- c) What are WBC?
- d) Give normal value of RBCs in male, female & infants.
- e) Define Pulse.
- f) What are Semilunar Valves?
- g) What is dyspnoea?
- h) What is surfactant?
- i) What is Bowman's Capsule?
- j) Define GFR and give its normal value
- k) Name the modes of heat gain by the body.
- l) Give 4 Functions of Skin.
- m) Name the appendages of the Skin.
- n) What is filtration?
- o) What is surface tension?

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2. Write short answer (**any four** out of six) : [4 × 5 = 20]
- a) Describe the fate of RBC & Haemoglobin.
  - b) I<sup>st</sup> & II<sup>nd</sup> Heart sound.
  - c) Functions of Blood.
  - d) Factors affecting cardiac output.
  - e) Composition and functions of Lymph.
  - f) Functions of Spleen.
3. Write short answer (**any four** out of six) : [4 × 5 = 20]
- a) Functions of Kidney & Glomerulus.
  - b) Explain the Respiratory centres.
  - c) Loop of Henle.
  - d) Simple muscle curve.
  - e) Anatomical & Physiological Respiratory Dead space.
  - f) Structure of Skin.
4. Long answer question (**any two** out of four) : [2 × 10 = 20]
- a) Write in Detail about Erythropoiesis- Sites Stages and Factors affecting it.
  - b) Explain in detail Cardiac cycle with the help of a neat labelled diagram.
  - c) Discuss the mechanism of respiration in detail.
  - d) Discuss the factors affecting body temperature.

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

5. Write in Detail about Coagulation of blood. Enumerate the factors of coagulation, its mechanism & applied physiology. [1 × 20 = 20]
6. Write in Detail about Hypoxia. Discuss its types in detail. [1 × 20 = 20]
7. Discuss Micturation reflex in details. [1 × 20 = 20]



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**First B.H.M.S. (2015) (New) Examination, Summer - 2021**  
**PHYSIOLOGY INCLUDING BIOCHEMISTRY - II**  
**(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.
  - 7) Use a common answer book for all sections.

1. Write short answer (**any ten** out of fifteen) : [10 × 2 = 20]

- a) What is Scurvy?
- b) Function of Oxytocin.
- c) What is Vitamine?
- d) What is Digestion?
- e) Function of Insulin.
- f) What is Fertilization?
- g) Name the Bile Salt.
- h) What is Safe period?
- i) What is Beriberi?
- j) Name the harmon secreted by posterior pitutary gland.

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- k) Function of parathyroid hormone.
- l) Clinical Features of Xerophthalmia.
- m) Function of Testosterone.
- n) Sources of Vitamin B12.
- o) Function of ADH.

2. Write short answer (**any four** out of six): [4 × 5 = 20]

- a) Describe Tetany.
- b) Function of Large Intestine.
- c) Describe Neoglucogenesis.
- d) Describe Amino Acid with their function.
- e) Function of intestinal juice.
- f) Goiter.

3. Write short answer (**any four** out of six) : [4 × 5 = 20]

- a) Describe Vitamin Tochoferol.
- b) Harmonal regulation of Menstrual cycle.
- c) Specific Dynamic Action of food.
- d) Night Blindness.
- e) Describe puberty.
- f) Importance of Carbohydrate in food.

4. Long answer question (**any two** out of four) : [2 × 10 = 20]

- a) Disorder of Posterior pituitary gland.
- b) Describe Enzyme with their characteristic function.
- c) Describe menstrual cycle.
- d) Describe structure & function of cerebral cortex.

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

5. Describe regulation of Blood Sugar level in human body. [1 × 20 = 20]
6. Define gastric juice. Write down the composition function and mechanism of secretion of gastric juice. [1 × 20 = 20]
7. Define deafness. What are the types of deafness write the pathway of hearing with suitable diagram. [1 × 20 = 20]

