



04112 A

**First B.H.M.S. (New) (2015) Examination, Summer 2018  
PHYSIOLOGY INCLUDING BIOCHEMISTRY – I**

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) What is leucocytosis and leukemia ?
- b) Name different types of WBCs.
- c) Write two functions of platelets.
- d) Define blood pressure. Write normal value.
- e) Name the junctional tissues of heart.
- f) Define pulse and write normal pulse rate.
- g) Define cynosis.
- h) Define asphyxia.
- i) Define plasma clearance.
- j) Define micturition and what is normal urine output ?
- k) What is core temperature ? Write normal value.
- l) Write functions of sebaceous glands.
- m) Name the types of sweat gland.
- n) What is active transport ?
- o) What is diffusion ?

04112 A



2. Write short answer (**any four** out of six) : (4×5=20)
- a) Functions of RBC.
  - b) Plasma proteins.
  - c) Cardiac output.
  - d) Properties of cardiac muscle.
  - e) Functions of spleen.
  - f) Composition and functions of lymph.
3. Write short answer (**any four** out of six) : (4×5=20)
- a) Peculiarities of renal circulation
  - b) Juxtaglomerular apparatus
  - c) Sarcomere
  - d) Respiratory membrane
  - e) Hypoxia.
  - f) Functions of skin
4. Long answer question (**any two** out of four) : (2×10=20)
- a) Describe formation and fate of hemoglobin.
  - b) Describe cardiac cycle with the help of suitable diagram.
  - c) Explain mechanics of breathing. Add a note on lung compliance.
  - d) Explain regulation of body temperature in detail.
- Long answer question (**any one** from Q. No. 5, 6 and 7) :
5. Long answer question : (1×20=20)  
Describe blood groups in detail.
6. Long answer question : (1×20=20)  
Describe nervous and chemical regulation of respiration.
7. Long answer question : (1×20=20)  
Describe formation of urine in detail.



04112 B

First B.H.M.S. (New)/(2015) Examination, Summer 2018  
PHYSIOLOGY INCLUDING BIOCHEMISTRY – II

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 hormone.
- b) Enlist the hormone secreted by pancreas.
- c) What is goiter ?
- d) What is dysphagia ?
- e) Define vomiting.
- f) Define phosphorylation.
- g) What is sarcomere ?
- h) What is menarche ? At which age it occurs ?
  - i) Define ovulation.
  - j) Define myxodemie.
  - k) Deficiency of vitamin C And B2.
    - l) What is pellegra ?
  - m) What are isoenzymes ?
  - n) What is babinski sign ?
  - o) What is reflex arc ?

04112 B



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

(4×5=20)

- a) Functions of thyroid hormones.
- b) Diabetes mellitus.
- c) Functions of liver.
- d) Deglutation.
- e) Glycogenesis.
- f) Properties of skeletal muscles.

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

(4×5=20)

- a) Beri beri.
- b) Vitamin K.
- c) Puberty.
- d) Co-enzymes.
- e) Balance diet.
- f) Kreb's cycle.

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

(2×10=20)

- a) Enumerate corticosteroides. Describe the actions of glucocorticoides.
- b) Write the composition, functions and regulation of secretion of saliva.
- c) Describe in detail spermatogenesis.
- d) Define neuron describe in detail.

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

5. Long answer question :

(1×20=20)

Define vitamin what are the types of vitamin write in detail fat soluble vitamin's.

6. Long answer question :

(1×20=20)

Define diet and balance diet write balance diet requited for pregnant lady and adolescent with function of diet.

7. Long answer question :

(1×20=20)

Define reflex what are the types of reflex. Write in detail about deep reflex with suitable diagram.