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First B.H.M.S. (2015)/(New) Examination, Summer - 2023 (Phase - III)

PHYSIOLOGY INCLUDING BIOCHEMISTRY-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 **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 section B.

Q2) Short answer questions (Solve any 4 out of 6) :

[4 × 5 = 20]

- a) Haemoglobin dissociation curve.
- b) Periodic breathing.
- c) Skin structure.
- d) Neuro muscular junction.
- e) Normal urine composition.
- f) Kidney functions.

Q3) Short answer questions (Solve any 4 out of 6) :

[4 × 5 = 20]

- a) Anaemia.
- b) Plasma proteins.
- c) Nerves of heart.
- d) Heart block.
- e) Reticulo endothelial system.

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Q4) Long answer questions (Solve any 2 out of 4) : [2x10=20]

a) Define hypoxia. Discuss the different types of Hypoxia in detail

OR

b) What is normal body temperature? Describe the factors involved in body temperature regulation.

c) Define cardiac output. Discuss factors affecting cardiac output in details.

OR

d) Describe the composition and functions of blood in detail.

Long answer questions (Any one from Q.No.5,6 and 7) [1x20=20]

Q5) Enumerate the different types of Leucocytes. Discuss their morphology and functions in details.

Q6) Discuss nervous and chemical regulation of Respiration in details.

Q7) Discuss Micturition Reflex in detail.



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First B.H.M.S. (New)/(2015) Examination, Summer - 2023 (Phase - III)
PHYSIOLOGY INCLUDING BIOCHEMISTRY - 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 **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 section B.

2) Short Answer Questions (Solve any 4 Out of 6) : [4 × 5 = 20]

- a) BMR.
- b) Receptors.
- c) Action Potential.
- d) Spermatogenesis.
- e) Scurvy.
- f) Fat Soluble Vitamins.

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

- a) Taste buds.
- b) Myxedema.
- c) Glycolysis.
- d) Functions of Bile.
- e) Peristalsis.
- f) Functions of Insulin.

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

a) Describe the mechanism of hearing and Auditory pathway.

OR

b) Discuss the secretion, functions and regulation of Ovarian Hormones.

c) Describe composition, secretion and functions of Pancreatic Juice.

OR

d) Name the Posterior Pituitary hormones and describe their functions.

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

5) Describe in detail functions, composition and mechanism of secretion of Gastric juice.

6) Define Tract. Classify them and describe in detail the Pyramidal Tract.

7) Describe in detail the hormones of Adrenal gland with functions and control of secretion.

