

**63112****First B.P.Th. (2012) Examination, Winter 2018**
HUMAN PHYSIOLOGY

Total Duration : Section A ± B = 3 Hours

Total Marks : 80

SECTION – A & SECTION – B

- 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 answerbook for **all** Sections.

SECTION – A (50 Marks)
(SAO)

1. Short answer question (**any five** out of six) : **(5x3=15)**
 - a) Resting membrane potential.
 - b) Functions of platelets.
 - c) Hypermetropia.
 - d) Functions of saliva.
 - e) Functions of proximal convoluted tubule.
 - f) Ovulation.
2. Short answer question (**any five** out of six) : **(5x7=35)**
 - a) Describe the role of calcium in our body.
 - b) Describe the functions of thyroid hormones.

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- c) Describe the properties of receptors.
- d) Enumerate the properties of cardiac muscle. Explain any two properties in detail,
- e) Pulmonary surfactant.
- f) Describe the mechanism of muscle contraction.

SECTION — B (30 Marks)
(LAO)

3. Long answer question (**any one** out of two) : **(1x15=15)**

- a) Define blood _pressure. Explain the long term regulation of blood pressure.
- b) Describe the functions of hypothalamus

4. Long answer question (**any one** out of two) : **(1 x15=15)**

- a) Describe the mechanics of respiration.
 - b) Explain the origin, insertion, termination and functions of pyramidal tract.
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