

**63112****First B.P.Th. 2012 Examination, Summer 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" SAO (50 Marks)**1. Short answer question (**any five** out of six) : **(5x3=15)**

- a) Active transport.
- b) Composition and functions of blood.
- c) Write the actions of testosterone.
- d) Draw and label visual pathway.
- e) Glomerular Filtration Rate.(GFR)
- f) Composition and function of gastric juice.

2. Short answer question (**any five** out of six) : **(5x7=35)**

- a) Ventricular events in cardiac cycle.
- b) Transport of carbon dioxide in blood.
- c) Effect of exercise on muscle power and endurance.

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- d) Basal metabolic rate .
- e) Neural regulation of respiration
- f) Actions of thyroid hormones.

SECTION — "B" LAO (30 Marks)

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

- a) Draw and label neuromuscular junction. Describe the transmission of signal across it. Add a note on myasthenia gravis.
- b) Describe the properties of nerve fiber. Classify the nerve fibers. Add a note on Wallerian degeneration.

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

- a) Enumerate the ascending tracts. Describe the pathway of touch sensation.
- b) Define reflex action and draw a neat labelled diagram of reflex arc. Classify reflexes. Add a note on stretch reflex.
