HUMAN PHYSIOLOGY

Total Duration: 3 Hours

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. It 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 (SAQ) (50 Marks)

1. Short answer question (any five out of six): [5 × 3 = 15]
   a) Enumerate the functions of gastric juice.
   b) What is hyperthyroidism? Enumerate its clinical features.
   c) What is spermatogenesis. Enlist its stages.
   d) Enumerate the functions of plasma proteins.
   e) Classify the transport mechanisms across the cell membrane with examples.
   f) Enumerate the properties of skeletal muscle.

2. Short answer question (any five out of six): [5 × 7 = 35]
   a) What is action potential? Draw a well labelled diagram of action potential and write on saltatory conduction in nerve fibres.

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P.T.O.
3. Long answer question (any one out of two): [1 × 15 = 15]
   a) Describe the neuromuscular junction with a suitable diagram. Add a note on neuromuscular transmission.
   b) Define the types of arterial blood pressure. Describe blood pressure regulation in detail.

4. Long answer question (any one out of two): [1 × 15 = 15]
   a) Describe in details the respiratory and cardiovascular changes during the exercise.
   b) Define and classify the reflexes. Explain reflex arc and the properties of reflexes in detail.