

**Ph.D. IN LIFE SCIENCES
(PHDLS)**

Term-End Examination

00041

December, 2017

RLSE-127 : HUMAN PHYSIOLOGY

Time : 3 hours

Maximum Marks : 100

Note : Attempt any **five** questions.

All questions carry equal marks.

1. What are Essential Nutrients ? Discuss the mechanism of protein digestion. 5+15=20
2. What is ECG ? Describe the conduction system of heart with the events involved in the cardiac cycle. 5+15=20
3. Describe the Neural and Chemical regulation of respiration. 20

4. Describe the Hypothalamo-Hypophyseal system with a reference to secretion of oxytocin and vasopressin. 20
5. Discuss the fight and flight syndrome. Explain how adrenal hormones respond to it. 5+15=20
6. Explain the mechanism of ovulation vis-à-vis involvement of hypothalamus and pituitary hormones. 20
7. Describe the mechanism of muscle contraction. 20
8. Write short notes on any **four** of the following : 20
- (a) Bohr's Effect
 - (b) Neuroglial Cells
 - (c) Renin-Angiotensin Mechanism for the Regulation of Kidney Function
 - (d) Islets of Langerhans
 - (e) Action Potential
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