

[LQ 6173]

FEBRUARY 2020

Sub.Code : 6173

**BOT DEGREE EXAMINATION**  
(New Regulations for the candidates admitted from 2014-2015 onwards)  
**FIRST YEAR**  
**PAPER III – PHYSIOLOGY**

*Q.P. Code: 786173*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:** (2 x 20 = 40)

1. Describe the structure of Neuromuscular junction and events involved in neuromuscular transmission. Add a note on myasthenia gravis.
2. Trace the visual pathway and describe the effects of lesions at various levels in the pathway.

**II. Write notes on:** (8 x 5 = 40)

1. Define anaemia and classify it based on morphology.
2. Composition and functions of pancreatic juice.
3. Posterior pituitary hormones.
4. Hormonal changes during the menstrual cycle.
5. Micturition reflex.
6. Define Lung volumes with its normal values.
7. Baroreceptor mechanism.
8. Features of Upper Motor Neuron (UMN) lesion and Lower Motor Neuron (LMN) lesion.

**III. Short answers on:** (10 x 2 = 20)

1. List any two functions of placenta.
2. Normal platelet count and its function.
3. Vital capacity.
4. Define Minute ventilation.
5. Electrocardiogram (ECG).
6. Mention the determinants of cardiac output.
7. Name the speech areas in the brain.
8. Mention any two functions of hypothalamus.
9. Referred pain.
10. Parkinson disease.

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