

[LK 6173]

FEBRUARY 2017

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 structure of skeletal muscle and write the mechanism of skeletal muscle contraction.
2. Describe the oxygen transport mechanism. Add a note on Hypoxia.

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

1. Anemia and its classification.
2. Deglutition reflex.
3. Neuromuscular junction.
4. Factors regulating GFR.
5. Factors determining blood pressure.
6. Lung volumes and capacities.
7. Color vision.
8. Functions of glucocorticoids.

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

1. What is Landsteiner' Law?
2. Write two examples of negative feedback mechanism.
3. What is the difference between isotonic and isometric contraction.
4. Name the pancreatic enzymes and their actions.
5. Juxta glomerular apparatus.
6. Name the different phases of cardiac cycle.
7. What are the hormones regulating calcium level in the body.
8. Milk ejection reflex.
9. Types of reflexes.
10. Name the errors of refraction and their correction.

\*\*\*\*\*