

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. Define arterial blood pressure. Describe the nervous regulation of arterial blood pressure.
2. Enumerate the ascending tracts in the spinal cord. Describe the pathway for pain in detail. Add a note on referred pain.

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

1. Functions of juxtaglomerular apparatus.
2. Classification of the blood groups and complications of blood transfusion.
3. Types of Hypoxia and its cause.
4. Functions of plasma proteins.
5. Functions of Liver.
6. Carbon dioxide transport.
7. Neuromuscular junction.
8. Enumerate the hormones secreted by anterior pituitary gland. Mention the actions of growth hormone.

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

1. Functions of middle ear.
2. Surfactant.
3. Functions of Sertoli cells.
4. Name the hormones of adrenal cortex.
5. Anticoagulants.
6. Facilitated diffusion.
7. Glomerular Filtration Rate (GFR).
8. Corpus luteum.
9. What is the difference between the Spasticity and Rigidity?
10. Sarcomere.