

[LH 0815]

AUGUST 2015

Sub.Code :6003

B.Sc. OPTOMETRY

FIRST YEAR

PAPER II – GENERAL ANATOMY AND GENERAL PHYSIOLOGY

Q.P. Code: 806003

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the heart – position, coverings, relations and chambers. Add a note on the coronary circulation.
2. Describe the pancreas : position, parts and relations.
3. Discuss the mechanism of carbon di oxide and oxygen transport in the blood.

II. Write notes on:

(8 x 5 = 40)

1. Describe the anatomy of the spleen.
2. Describe the structure of a neuron.
3. Describe the types and classification of bone.
4. Describe the structure of skin.
5. List the hormones involved in pregnancy and lactation and state their functions.
6. List the different white blood cells along with their functions.
7. Describe the physiology of hearing.
8. List the enzymes required for carbohydrate digestion, their source and their actions.

III. Short answers on:

(10 x 3 = 30)

1. Draw a diagram of the brainstem and label its parts.
2. Anatomy of the ureter.
3. Structure of stratified Squamous epithelium.
4. Define the term reflex. What are the components of the reflex arc?
5. List the female contraceptive methods.
6. What is anemia? List two causes of anemia.
7. What is a diuretic? Give one example.
8. List the functions of the mitochondria, lysosome and endoplasmic reticulum.
9. What is meant by myopia and hypermetropia? How are they corrected?
10. Describe the micturition reflex.
