[LB	AUGUST 2012 B.Sc. OPTOMETRY	Su	b. Cod	e: 6003			
]	FIRST YEAR PAPER II – GENERAL ANATOMY AND GENERAI <i>Q.P. Code :</i> 806003	PHY	SIOLC	GY			
Time : Three hours Maximum : 100 marks (180 Mins) Answer ALL questions in the same order.							
I. E	laborate on:	Pages	Time N (Max.)(
1.	What is blood coagulation? Enumerate the factors involved in coagulation of blood. Describe the intrinsic mechanism of coagulation. Add a note on anticoagulants.		20	10			
2.	Name the structures included in upper and lower respiratory tract. Describe the position, general features, lobes and fissures of lung. Add a note on its blood supply.	y 7	20	10			
	What is the normal blood calcium level in the human body? Explain the regulation of blood calcium level. Add a note on tetany.	7	20	10			
	Write Notes on:						
	Conducting system of heart.	4	10	5			
	Anatomy of long bone.	4	10	5			
	Functions of liver.	4	10	5			
	Structure of skeletal muscle.	4	10	5			
	Juxtaglomerular apparatus.	4	10	5			
	Pleura.	4	10	5			
	Neuromuscular junction. Histology of retina.	4 4	10 10	5 5			
п	I. Short Answers on:						
	What is lactation?	2	4	3			
2.	Name the bones of the axial skeleton.	2	4	3			
3.	What is vital capacity?	2	4	3			
4.	What is an epithelium?	2	4	3			
5.	What is micturition?	2	4	3			
6.	What is organ of Corti?	2	4	3			
7.	What is saltatory conduction?	2	4	3			
8.	Name the parts of small intestine.	2	4	3			
	Define arterial blood pressure.	2	4	3			
10.	Name the hormones of thyroid gland. What is cretinism?	2	4	3			

[LC 0212]

FEBRUARY 2013 Sub. Code: 6003 **B.Sc. OPTOMETRY** FIRST YEAR PAPER II – GENERAL ANATOMY AND GENERAL PHYSIOLOGY *O.P. Code* : 806003

Time : Three hours

Answer ALL questions.

Maximum : 100 marks

 $(3 \times 10 = 30)$

I. Elaborate on :

- 1. Describe the position, surfaces, lobes and functions of liver. Add a note on jaundice.
- 2. Define and classify joints. Write in detail about synovial Joints.
- **3.** Define blood pressure. What is its normal value. Explain the long term regulation of blood pressure.

II. Write Notes on:

1.Hypoxia.

- **2.** Heart sounds.
- **3.**Functions of Skin.
- **4.** Thyroid gland.
- **5.**Structure of nephron.
- **6.**Neuromuscular junction.
- 7. Active transport.
- 8.Pain pathway.

III. Short Answers on:

- **1.** What is epithelium?
- **2.** What is an action potential?
- **3.** What is normal haemoglobin level in female?
- 4. Name thesegments of eyeball.
- **5.** What is stroke?
- **6.**What is Diabetes insipidus?
- **7.**What is peristalsis?
- **8.**What is a capillary?
- **9.**What is leukemia?
- **10.** Name the digestive juices.

$(8 \times 5 = 40)$

$(10 \times 3 = 30)$

[LD 0212]

B.SC. OPTOMETRY FIRST YEAR PAPER III - GENERAL ANATOMY AND GENERAL PHYSIOLOGY

AUGUST 2013

Answer All questions

I Elaborate on:

Time: Three hours

- 1. Give an account of Anatomy of Pancreas. Add a note on its functions
- 2. What is cardiac cycle and its importance?
- 3. Write about menstrual cycle

II. Short notes on:

- 1. Hemoglobin
- 2. Anemia and its classification
- 3. Vitamin C
- 4. Types and classification of joints
- 5. Functions of skin
- 6. Histology of liver
- 7. Renin angiotensin system
- 8. Types of cartilage

III. Short answers on:

- 1. What is diabetes mellitus?
- 2. What is exophthalmos?
- 3. Classify WBC's and give two functions
- 4. What are the symptoms of Vitamin D deficiency?
- 5. Name the hormones produced by anterior pituitary
- 6. What is Myxoedema?
- 7. Name the layers of blood vessels
- 8. Name the organs of excretory system
- 9. Types of taste buds
- 10.Composition of Blood

 $(8 \times 5 = 40)$

(3x10 = 30)

 $(10 \times 3 = 30)$

Q.P. Code: 806003

Maximum: 100 Marks

Sub.Code :6003

[LE 0212]

FEBRUARY 2014

Sub. Code :6003

B.SC. OPTOMETRY FIRST YEAR PAPER II - GENERAL ANATOMY AND GENERAL PHYSIOLOGY

Q.P. Code: 806003

Answer all questions

Time: Three hours

I Elaborate on:

- 1. What is blood coagulation? Enumerate the factors involved in coagulation of blood. Describe the intrinsic mechanism of coagulation. Add a note on anticoagulants.
- 2. Define Joints. Write in detail about synovial Joints with examples.
- 3. Draw and label the parts of Digestive system.

II. Short notes on:

- 1. Functions of White Blood cells.
- 2. Classifications of bone.
- 3. Structure of Skeletal muscle.
- 4. Draw the diagram of bronchopulmonary segments.
- 5. Define hypoxia.
- 6. What are Immunoglobulins?
- 7. Function of Vitamin C.
- 8. Structure of Skin.

III. Short answers on:

- 1. What is Scurvy?
- 2. Coverings of testis.
- 3. Types of epiphysis.
- 4. Sesamoid bone with its example.
- 5. Parts of neurons.
- 6. Define Cardiac cycle.
- 7. Define oedema.
- 8. What is a Synapse?
- 9. Lobes of lungs.
- 10. Erythrocyte Sedimentation Rate.

 $(10 \times 3 = 30)$

Maximum : 100 Marks

 $(8 \times 5 = 40)$

 $(3 \times 10 = 30)$

[LF 0212]

AUGUST 2014

Sub.Code :6003

B.SC. OPTOMETRY FIRST YEAR PAPER II - GENERAL ANATOMY AND GENERAL PHYSIOLOGY

Q.P. Code: 806003

Time: Three hours	A A 11 /*	Maximum : 100 Marks		
I. Elaborate on:	Answer All questions	(3x10 = 30)		
 Joints - definition and class Liver-its position, relations Composition and functions 	, lobes, surfaces, borders and	d functions.		
II. Short notes on:		$(8 \times 5 = 40)$		
 Tongue. Cartilage. Muscles of respiration. Thyroid gland. Eye ball. Erythrocyte Sedimentation Visual pathway. 	Rate.			

8. Structure and function of skin.

III. Short answers on:

- 1. Urothelium.
- 2. Thymus.
- 3. Appendix.
- 4. Testis.
- 5. Difference between large intestine and small intestine.
- 6. Electrocardiogram.
- 7. Hypoxia.
- 8. Reflex arc.
- 9. Normal and abnormal constituents of urine.
- 10. Conrtraceptive methods.

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 $(10 \times 3 = 30)$

[LG 0215]

FEBRUARY 2015

Sub.Code :6003

B.Sc. OPTOMETRY

FIRST YEAR

PAPER II – GENERAL ANATOMY AND GENERAL PHYSIOLOGY Q.P. Code: 806003

Answer All questions

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

- 1. Lacrimal apparatus.
- 2. Small intestine-structure, secretions and functions.
- 3. Heart–position, relations, chambers, flow of blood through heart and coronary circulation.

II. Short notes on:

- 1. Para nasal air sinuses.
- 2. Mammary gland.
- 3. Broncho pulmonary segments.
- 4. Duodenum.
- 5. Functions of skin.
- 6. Menstrual cycle.
- 7. Visual pathway.
- 8. Action potential.

III. Short answers on:

- 1. Hyaline cartilage.
- 2. Cornea.
- 3. Branches from arch of aorta.
- 4. Formation of thoracic duct.
- 5. Supra renal glands.
- 6. Juxta glomerular apparatus.
- 7. Glaucoma.
- 8. Phagocytosis.
- 9. Haemostasis.
- 10. Sleep.

$(10 \times 3 = 30)$

$(3 \times 10 = 30)$

 $(8 \times 5 = 40)$

[LH 0815]

AUGUST 2015

Sub. Code: 6003

 $(8 \times 5 = 40)$

 $(10 \times 3 = 30)$

B.Sc. OPTOMETRY

FIRST YEAR

PAPER II – GENERAL ANATOMY AND GENERAL PHYSIOLOGY

Q.P. Code: 806003

Time : Three Hours	Aaximum : 100 marks		
I Elaborata and	Answer ALL questions	(2 10 - 20)	
I. Elaborate on:		$(3 \times 10 = 30)$	
1 Describe the beaut	nosition according and shamps	***	

- 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:

- 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:

- 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.

[LI 0216]

FEBRUARY 2016

Sub.Code :6003

B.Sc. OPTOMETRY

FIRST YEAR

PAPER II - GENERAL ANATOMY AND GENERAL PHYSIOLOGY

Q.P. Code: 806003

Answer All questions

Maximum : 100 Marks

I. Elaborate on:

- 1. List the various constituents of blood. What are the functions of blood?
- 2. Describe the various refractive errors of the eve and describe their correction.
- 3. Describe the lungs in detail position, coverings, lobes, fissures and blood supply.

II. Write notes on:

- 1. Describe the structure of a nephron.
- 2. Describe the anatomy of the cerebral hemispheres.
- 3. Describe the anatomy of the thyroid gland.
- 4. Describe the anatomy of the liver.
- 5. Describe the types of muscle.
- 6. What is the normal adult blood pressure? What are the factors that affect blood pressure? What does the term 'hypertension' mean?
- 7. List the important sensory and motor tracts of the spinal cord.
- 8. List the hormones produced by the pituitary gland. Mention one function of each hormone.

III. Short answers on:

- 1. Anatomy of the gall bladder.
- 2. Anatomy of the uterus.
- 3. Name the branches of the arch of the aorta.
- 4. Structure of hyaline cartilage.
- 5. Anatomy of the prostate gland.
- 6. List three functions of the kidney.
- 7. What is meant by the term homeostasis?
- 8. Discuss permanent contraceptive methods.
- 9. Describe the composition and function of gastric juice.
- 10. List any three organelles present in a cell and describe their functions.

Time: Three Hours

 $(8 \times 5 = 40)$

 $(10 \times 3 = 30)$

 $(3 \times 10 = 30)$