

February 2011

[KY 759]

Sub. Code: 4253

**FIRST B.PHARM. DEGREE EXAMINATION**

**(Regulations 2009)**

**Candidates Admitted from 2009-10 onwards**

**Paper III – ANATOMY PHYSIOLOGY AND HEALTH EDUCATION**

***Q.P. Code : 564253***

**Time : Three hours**

**Maximum : 80 marks**

**I. Essay Questions :** Answer any **TWO** questions. **(2 x 20 = 40)**

1. Explain the following with neat diagram a) Neuron b) Nephron.
2. Anatomy and Physiology of Heart.
3. Explain the functions of blood and lymphatic system.

**II. Write Short Notes :** Answer any **SIX** questions. **(6 x 5 = 30)**

1. Types of synovial joint.
2. Hepatic circulation.
3. Lung volumes.
4. Composition of pancreatic juice and its functions.
5. Scapula.
6. Uterus and its functions.
7. Posterior pituitary gland.
8. Causative agent, Mode of transmission and treatment of tuberculosis.

**III. Short Answers:** Answer any **FIVE** questions. **(5 x 2 = 10)**

1. Pulmonary circulation.
2. Reflex arc.
3. Any two contraceptive methods for Male.
4. Phaeochromocytoma.
5. Myxoedema.
6. Caisson's disease.
7. Composition of urine.

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August 2011

[KZ 4253]

Sub. Code: 4253

**FIRST B.PHARM. EXAMINATION**

**Paper III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION**

*Q.P. Code : 564253*

**I. LONG ESSAYS**

**(2 x 20 = 40)**

1. With a neat diagram explain the Anatomy of the Heart. Explain the cardiac cycle.
2. Explain the structure of the kidney with a neat labeled diagram. Discuss the functions of kidney.

**II. SHORT NOTES**

**(8 x 5 = 40)**

1. Explain the anatomy of respiratory tract.
2. Discuss the various stages of menstrual cycle.
3. Write note on blood grouping and its significance.
4. Discuss the various methods of family planning.
5. Describe the physiology of audition.
6. Discuss the physiology and functions of thyroid gland.
7. Explain the preventive measures and treatment of vitamin deficiency disorders.
8. Write a note on cranial nerves and their functions.

**III. SHORT ANSWERS**

**(10 x 2 = 20)**

1. Types of cells
2. Define spermatogenesis and oogenesis.
3. Functions of skeleton
4. What is cyanosis?
5. Causative agents and modes of transmission of chicken pox and measles.
6. What is blood pressure?
7. Composition of lymph.
8. What is reflex arc?
9. What are the various heart sounds?
10. What is a balanced diet?

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February 2012

(LA 4253)

Sub. Code: 4253

**FIRST B.PHARM. EXAMINATION**  
**Paper III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION**

*Q.P. Code : 564253*

**Time: Three Hours Maximum: 100 marks**

**Answer ALL questions**

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

1. Give the physiological functions of female sex hormones. Explain the physiology of menstruation
2. With neat labelled diagram, explain the anatomy of respiratory system. Give the functions of respiratory organs. Add a note on regulation of respiration.

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

1. Give the composition and functions of cerebrospinal fluid.
2. Write a note on the bones of the skull
3. Draw the structure of a human skin and give its functions.
4. Explain the regulations of erythropoiesis
5. Briefly write about blood pressure
6. Write a note on liver
7. Enumerate the functions of epithelial tissue
8. Name various types of muscle. Explain the properties of skeletal muscle

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

1. Name the disorders of Vitamin K and Iron
2. What is vasectomy?
3. Name the causative organism of Tuberculosis, chicken pox, Diphtheria, Filariasis.
4. What is balanced diet?
5. What is resuscitation?
6. What are rods and cones?
7. Define coagulation, erythropoiesis.
8. Name two important functions of Kidney
9. Diagrammatically represent the action potential of muscle
10. Give the composition of bile.

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(LB 4253)

AUGUST 2012

Sub. Code: 4253

**FIRST YEAR B.PHARM. EXAM**

**Paper III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION**

*Q.P. Code : 564253*

**Time: Three Hours**

**Maximum: 100 marks**

**(180 Min) Answer ALL questions in the same order.**

**I. Elaborate on:**

**Pages Time Marks  
(Max.)(Max.)(Max.)**

- |  |    |    |    |
|--|----|----|----|
| 1. With a neat diagram explain the Anatomy of Brain.<br>Add a note on its functions. | 19 | 33 | 20 |
| 2. Draw a neat diagram of eye. Discuss the physiology<br>of vision.                  | 19 | 33 | 20 |

**II. Write notes on:**

- |  |   |   |   |
|--|---|---|---|
| 1. Explain the cardiac cycle.  | 3 | 8 | 5 |
| 2. Discuss the physiology of cell membrane.                                      | 3 | 8 | 5 |
| 3. Write note on disease causing agents and<br>their prevention.                 | 3 | 8 | 5 |
| 4. Describe the different phases of menstrual cycle.                             | 3 | 8 | 5 |
| 5. Write notes on Oral contraceptives.   | 3 | 8 | 5 |
| 6. Discuss the mechanism of coagulation.   | 3 | 8 | 5 |
| 7. Explain the anatomy of the pituitary gland.                                   | 3 | 8 | 5 |
| 8. Discuss the causative agent, modes of transmission<br>and prevention of AIDS. | 3 | 8 | 5 |

**III. Short Answers:**

- |   |   |   |   |
|---|---|---|---|
| 1. Define Vital capacity.                       | 1 | 5 | 2 |
| 2. Composition of lymph.                        | 1 | 5 | 2 |
| 3. Functions of neuron.                         | 1 | 5 | 2 |
| 4. What is mountain sickness?                   | 1 | 5 | 2 |
| 5. Characteristic features of muscular tissues. | 1 | 5 | 2 |
| 6. Resuscitation methods.                       | 1 | 5 | 2 |
| 7. Functions of reticulo-endothelial system.    | 1 | 5 | 2 |
| 8. Deficiency of fat soluble vitamins.          | 1 | 5 | 2 |
| 9. What is ECG?                                 | 1 | 5 | 2 |
| 10. Types of joints.                            | 1 | 5 | 2 |

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(LC 4253)

FEBRUARY 2013

Sub. Code: 4253

FIRST YEAR B.PHARM. EXAM

Paper III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION

*Q.P. Code : 564253*

**Time: Three Hours  
(180 Min)**

**Maximum: 100 marks**

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

1. a) Draw a neat sectional diagram of heart and label the inner parts ?  
b) Mention about vital centers of brain?  
c) Cerebrospinal Fluid?
  
2. a) Structure and function of male and female reproductive system ?  
b) Spermatogenesis and oogenesis?

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

1. What is causative agent? Mode of transmission and preventive measures of Tuberculosis?
2. Balanced diet?
3. Cardiac cycle?
4. Rh factors?
5. Define B.P? write about the various factors that regulate B.P
6. Explain the mechanism of Respiration?
7. Types of Synovial joint?
8. Composition of urine, Disease of the urinary system?

**III. Short Answers:** (10 x 2 = 20 marks)

1. Aqueous humor.
2. Kawashiorkar.
3. Functions of cell.
4. Classification of bones.
5. Functions of WBC.
6. Functions of Spleen.
7. Rods and cones.
8. Types of valves in the heart.
9. Cerebellum.
10. Functions of Uterus.

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(LD 4253)

AUGUST 2013

Sub Code: 4253

**FIRST B.PHARM. EXAM**

**Paper III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION**

*Q.P. Code : 564253*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. a) Draw a neat diagram and describe the organs of digestive system.  
b) Explain their role in digestion of food.
2. a). Write the composition and functions of Blood.  
b) Discuss about the mechanism of Blood coagulation.

**II. Write Short Notes:**

**(8 x 5 = 40)**

1. Discuss about the structure of skin and its function.
2. Classify Bones with example.
3. Write briefly about the mechanism of Respiration.
4. Write a note on Hormones of pituitary gland.
5. Write briefly on Erythropoiesis.
6. Define Reflex action and describe the formation of Reflex action.
7. Describe different family planning methods.
8. Describe the endocrine functions of Pancreas.

**III. Short Answers:**

**(10 x 2 = 20)**

1. Functions of Hypothalamus.
2. Fat soluble Vitamins and its function.
3. Functions of the Liver.
4. Functions of Bones.
5. Permanent sterilisation methods of family planning.
6. Sexually transmitted diseases and its causes.
7. Adrenal cortical Hormones and its functions.
8. Disorders of Thyroid gland and its functions.
9. Carbohydrate metabolism.
10. Diseases of the eye.

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(LE 4253)

FEBRUARY 2014

Sub Code: 4253

**FIRST B.PHARM. EXAM**

**Paper III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION**

*Q.P. Code : 564253*

**Time : Three hours**

**Maximum : 100 marks**

**Answer All Questions**

**I. Elaborate on:**

**(2X20=40)**

1. a) Explain anatomy of Heart with neat labeled diagram.  
b) Write a note on cardiac cycle.
2. a) Draw a labeled diagram to show the histology of the thyroid gland. Write the steps involved in thyroxine.  
b) Write the principal actions and disorders of thyroxine.

**II. Write Short Notes on:**

**(8 x 5 =40)**

1. Functions of Reticulo- endothelial system
2. Physiology of audition
3. Malnutrition
4. Reflex arc
5. Mechanism of urine formation
6. Composition and functions of pancreatic juice
7. Systemic circulation
8. Discuss the causative agent, mode of transmission, prevention and control of various communicable disease.

**III. Short Answers:**

**(10 x 2 =20)**

1. Type of joints.
2. Blood groups & its significance.
3. Mountain sickness
4. Composition of bile
5. Types of cartilage
6. Define Gestation
7. Pelvic Girdle
8. Christmas factor
9. Heamostatis
10. Composition of lymph

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(LF 4253)

AUGUST 2014

Sub Code: 4253

**FIRST B.PHARM. EXAM**  
**PAPER III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION**

*Q.P. Code : 564253*

**Time: Three hours**

**Maximum: 100 marks**

**Answer All Questions**

**I. Essay:**

**(2X20=40)**

1. Discuss the anatomy of respiratory organs with neat labeled diagram and explain the mechanism of respiration.
2. Draw a neat sketch of cross section of eye and label the parts. Explain the physiology of vision.

**II. Short Notes:**

**(8x5=40)**

1. Cerebro spinal fluid and its function.
2. Enumerate the communicable diseases and discuss the prevention of TB and Malaria.
3. Write the composition of functions of blood.
4. Give the classification of connective tissue. What are its functions?
5. Classify joints. Add a note on ball and socket joint
6. Explain the physiology of heart.
7. Write notes on spermatogenesis.
8. State the functions of hypothalamus.

**III. Short Answers:**

**(10x2=20)**

1. Cardiac cycle.
2. Tidal volume
3. Functions of ANS
4. Anaemia
5. Functions of WBC
6. Blood pressure
7. Functions of skin
8. AIDS
9. Nephrons
10. Balanced diet

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