

**September 2009**

**[KV 801]**

**Sub. Code: 3801**

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**(Regulations 2008 - 2009)**

**(Candidates admitted from 2008-2009 onwards)**

**FIRST YEAR**

**Paper I – HUMAN ANATOMY AND PHYSIOLOGY**

***Q.P. Code : 383801***

**Time : Three hours**

**Maximum : 70 marks**

**Answer All questions**

**I. Essay Questions :**

**(2 x 20 = 40)**

1. Give an account of the composition and functions of blood. Mention the disorders of blood components.
2. Describe the structure, secretions and functions of anterior pituitary gland.  
Add a note on hyperthyroidism.

**II. Write Short Notes :**

**(6 x 5 = 30)**

1. Spinal Cord.
2. Cardiac cycle.
3. Liver.
4. Muscle in exercise.
5. Contraceptive devices.
6. Drugs and athletics.

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**March 2010**

**[KW 801]**

**Sub. Code: 3801**

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**(Regulations 2008 - 2009)**

**(Candidates admitted from 2008-2009 onwards)**

**FIRST YEAR**

**Paper I – HUMAN ANATOMY AND PHYSIOLOGY**

***Q.P. Code : 383801***

**Time : Three hours**

**Maximum : 70 marks**

**Answer All questions**

**I. Essay Questions :**

**(2 x 20 = 40)**

1. With a neat and labelled diagram, describe the structure and functions of heart.  
Write briefly on pulmonary circulation.
2. With a neat and labelled diagram, describe the structure and functions of the kidney.  
Explain how urine is formed.

**II. Write Short Notes :**

**(6 x 5 = 30)**

1. Cranial nerves.
2. Epithelial tissue.
3. Types of movements of joints.
4. Ovulation.
5. Regulation of respiration.
6. Digestion and absorption of proteins.

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**September 2010**

**[KX 801]**

**Sub. Code: 3801**

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**(Regulations 2008 - 2009)**

**(Candidates admitted from 2008-2009 onwards)**

**FIRST YEAR**

**Paper I – HUMAN ANATOMY AND PHYSIOLOGY**

***Q.P. Code : 383801***

**Time : Three hours**

**Maximum : 70 marks**

**Answer All questions**

**I. Essay Questions :**

**(2 x 20 = 40)**

1. Define a Cardiac cycle. Describe the various events taking place in a cardiac cycle with time sequences.
2. a) List out the secretions from pituitary gland with its Physiological functions.  
b) Explain the Structure and Physiological functions of Thyroid gland.  
c) Add a note on the disorders of Thyroid gland.

**II. Write Short Notes :**

**(6 x 5 = 30)**

1. Classify Joints with the possible movements of joints from its location.
2. Enumerate the functions of blood.
3. Define the following: i) Hypertension ii) Myocardial infarction  
iii) Hypoxia iv) Resuscitation
4. Differentiate the terms Digestion and Absorption.
5. Describe the contraceptive devices for both Male and Female based on temporary method.
6. Write a brief note on Drug docking.

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**May 2011**

**[KY 801]**

**Sub. Code: 3801**

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**(Regulations 2008 - 2009)**

**(Candidates admitted from 2008-2009 onwards)**

**FIRST YEAR**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY**

***Q.P. Code : 383801***

**Time : Three hours**

**Maximum : 70 marks**

**Answer All questions**

**I. Essay Questions :**

**(2 x 20 = 40)**

1. a) Discuss about pancreatic islets and its hormones functions. Explain the diabetes mellitus and its complications.  
b) Explain the structure of skin with labelled diagram. Write about the functions of skin.
2. a) Explain the menstrual cycle. (7)  
b) Draw the neat diagram of heart and label it. Explain the structure of heart. Discuss about the blood flow process in the heart. (2+6+5)

**II. Write Short Notes :**

**(6 x 5 = 30)**

1. White blood cells and its function.
2. Define following terms a) Megaloblastic anaemia b) Hypertension c) Gastritis d) Osteoarthritis.
3. Salivary glands and its functions.
4. Clotting mechanism.
5. Adrenal medulla.
6. Disorders of pituitary glands.

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October 2011

[KZ 801]

Sub. Code: 3801

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**FIRST YEAR**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY**

*Q.P. Code : 383801*

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Describe the anatomy of lungs and physiology of respiration with diagram.	17	40 min.	20
2. What are the endocrine glands of our body and give their functions?	17	40 min.	20

**II. Write notes on :**

1. Enumerate the functions of blood.	4	10 min.	6
2. Write the vital centres in brain.	4	10 min.	6
3. Explain in brief structure and functions of skin.	4	10 min.	6
4. Write the various types of clotting factors.	4	10 min.	6
5. Write a note on a) Hypothalamus b) Cranial nerves.	4	10 min.	6
6. Describe briefly about the mechanism of micturition.	4	10 min.	6
7. Write a note on electrocardiogram.	4	10 min.	6
8. Write about muscle in exercise.	4	10 min.	6
9. Discuss about any three disorders involved in gastrointestinal tract.	4	10 min.	6
10. Write three phases involved in gastric juice.	4	10 min.	6

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**April 2012**

**[LA 801]**

**Sub. Code: 3801**

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**FIRST YEAR**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY**

***Q.P. Code : 383801***

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Draw a neat labeled diagram of different parts of nephron.  Explain the mechanism and hormones regulating urine formation.	17	40	20
2. Discuss the anatomy of pituitary gland and name the hormones secreted by pituitary gland Describe briefly the physiological functions and abnormalities of growth hormone.	17	40	20

**II. Write notes on :**

1. Briefly explain the Rennin Angiotensin system and its importance in blood pressure maintenance.	4	10	6
2. Write the Non auditory functions of ear and name the nerves of audition.	4	10	6
3. Explain the factors controlling erythropoiesis.	4	10	6
4. Define the following terms: a)Atherosclerosis b)Oliguria c)Jaundice d)Apnoea e)Leucocytosis f)Ataxia.	4	10	6
5. Discuss the transport of oxygen in blood. What are the factors influencing oxygen dissociation curve?	4	10	6
6. List out the cranial nerves and its functions.	4	10	6
7. Name the clotting factors. Add a note on clotting and bleeding disorders.	4	10	6
8. Describe the physiological changes during severe exercise.	4	10	6
9. Anatomy and functions of liver.	4	10	6
10. Write a note contraceptive device.	4	10	6

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[LB 801]

**OCTOBER 2012**  
**PHARM. D DEGREE EXAMS**  
**FIRST YEAR**

**Sub. Code: 3801**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY**

*Q.P. Code : 383801*

**Time : 3 hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Describe the mechanism of coagulation of blood with clotting factors involved. How do intrinsic and extrinsic pathways differ? Add note on erythropoietin.	17	40	20
2. Explain in detail about the mechanism and regulation of respiration. Explain the following terms (i) End Diastolic Volume (EDV) (ii) Vital Capacity (VC) (iii) Glomerular Filtration Rate.	17	40	20

**II. Write notes on :**

1. Name the elementary tissues of the human body and give their silent features.	4	10	6
2. Define Micturition. Explain the mechanism of Micturition.	4	10	6
3. What are the various refractive errors of eye? How it can be corrected?	4	10	6
4. Explain with a diagram the knee joint.	4	10	6
5. Explain various phases of ECG.	4	10	6
6. Name the hormones of adrenal gland. Add note on Addison's disease.	4	10	6
7. Discuss the digestion and absorption of proteins.	4	10	6
8. Explain Oogenesis.	4	10	6
9. Write the physiological functions of sympathetic system.	4	10	6
10. Draw a neat labeled diagram of human brain structure.	4	10	6

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[LC 801]

APRIL 2013

Sub. Code: 3801

PHARM. D DEGREE EXAMS

FIRST YEAR

PAPER I – HUMAN ANATOMY AND PHYSIOLOGY

*Q.P. Code : 383801*

**Time : 3 hours**

**Maximum : 100 marks**

**I. Elaborate on :**

**(2x20=40)**

1. With a labelled diagram explain the parts of nephron. Explain the mechanism of urine formation.
2. Explain the stages of erythropoiesis. Explain the life cycle of RBCs.

**II. Write notes on :**

**(10x6=60)**

1. Draw a labeled diagram of innominate bone and describe it.
2. Spleen and its functions.
3. Pulmonary circulation.
4. Lung volumes.
5. Structure and functions of pancreas.
6. Reflex arc.
7. Functions of glucocorticoids.
8. Genetic basis of sex determination.
9. Physiology of vision.
10. Physiology of muscle contraction.

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[LD 801]

OCTOBER 2013

Sub. Code: 3801

**PHARM. D DEGREE EXAMINATIONS**  
**FIRST YEAR**  
**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY**

*Q.P. Code : 383801*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions in the same order**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. With suitable diagram explain the anatomy of human brain.  
Name different heart sounds and its disorders.
2. Classify hormones with examples.  
Explain the physiological functions, regulations and deficiency of GH.

**II. Write notes on:**

**(10 x 3 = 30)**

1. Draw the structure white blood cells and give the functions.
2. Write the physiological changes focusing respiration, heart rate during exercise.
3. Classify tissues with suitable examples.  
Draw the histological structure of squamous epithelium.
4. With the diagram explain the micturition response.
5. Explain the mechanism of vision.
6. Explain the anatomy of sympathetic system.
7. How gases are transported in the body?
8. What is ECG? With diagram explain the events of ECG.
9. Write the function and disorders of spleen.
10. Explain the properties of skeletal muscle.

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