

(LN 2014)

SEPTEMBER 2018

Sub. Code: 2014

**B.PHARM. DEGREE EXAMINATION  
PCI REGULATION – SEMESTER II  
FIRST YEAR  
PAPER I – HUMAN ANATOMY AND PHYSIOLOGY – II**

*Q.P. Code: 562014*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Write about the structure and functions of brain.
2. Explain the anatomy of respiratory system with neat labelled diagram. Add a note on mechanism of respiration.
3. a) Explain about anatomy of female reproductive system.  
b) Give a brief note on menstrual cycle.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Physiology of urine formation.
2. Endocrine function of pancreas.
3. Reflex action.
4. Anatomy and functions of liver.
5. Role of RAS in kidney.
6. Resuscitation methods.
7. Write about neurotransmitter with examples.
8. Hormones secreted by anterior pituitary gland.
9. Spermatogenesis.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Define mountain sickness.
2. Acromegaly.
3. Define BMR.
4. Neuroglia.
5. Define saliva and its functions.
6. Functions of hypothalamus.
7. Tidal volume.
8. Micturition reflex.
9. Hepatitis.
10. Define oogenesis.

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(LO 2014)

MARCH 2019

Sub. Code: 2014

**B.PHARM. DEGREE EXAMINATION**  
**PCI Regulation – SEMESTER II**  
**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY – II**

*Q.P. Code: 562014*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Explain the structure of Kidney with a neat diagram and discuss the functions of kidney.
2. a) Draw the structure of adrenal glands.  
b) Discuss the hormones secreted by adrenal glands and their functions.
3. a) Explain ovulation.  
b) Outline the various events of menstrual cycle.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Give the composition of cerebrospinal fluid.
2. Composition and functions of pancreatic juice.
3. Discuss the physiology and functions of thyroid glands.
4. Explain the mechanism of respiration.
5. Give the composition and role of saliva in digestion.
6. Spermatogenesis.
7. Describe the associated structures and functions of cerebellum.
8. Explain the role of pepsin in protein digestion.
9. Anatomy of GI tract and discuss the function of stomach.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Reflex arc.
2. Parturition.
3. Write on chromosomes.
4. Composition of bile.
5. Fertilization.
6. What is genetic pattern of inheritance?
7. Resting membrane potential.
8. Functions of liver.
9. Neurotransmitters.
10. BMR.

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(LP 2014)

SEPTEMBER 2019

Sub. Code: 2014

**B.PHARM. DEGREE EXAMINATION**  
**PCI Regulation – SEMESTER II**  
**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY – II**

*Q.P. Code: 562014*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Name the four surface lobes of the Cerebral hemisphere and describe the functions of the Cortex in each lobe.
2. Explain about the anatomy and physiology of Digestive system.
3. With illustrated diagram explain about the structure and function of a Nephron.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Explain about the mechanism of hormone action.
2. Discuss about the internal structure of the female reproductive system with diagram.
3. Describe about Oogenesis.
4. Write a brief note on pregnancy and parturition.
5. Genetic pattern of inheritance.
6. Write a note on neurotransmitter receptors with examples.
7. Discuss about the process of acid regulation in digestive system.
8. Discuss about the formation and role of ATP.
9. Name the various functions of the respiratory system.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Functions of cerebellum.
2. Parts of Stomach.
3. Gall bladder.
4. Inflammatory Bowel Disease.
5. Naso pharynx.
6. Carbondioxide transport in blood.
7. Urinary Bladder.
8. Diabetic nephrophathy.
9. Vasopressin.
10. Diabetes mellitus.

(LQ 2014)

MARCH 2020

Sub. Code: 2014

**B.PHARM. DEGREE EXAMINATION**  
**PCI Regulation – SEMESTER II**  
**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY – II**

*Q.P. Code: 562014*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. a) With a neat diagram and explain the anatomy of the respiratory system and give the functions of respiratory organs.  
b) Add a note on regulation of respiration.
2. a) Draw a diagram and describe the Pancreas.  
b) Explain their role in digestion and absorption of nutrients.
3. Explain the structure and functions of male and female reproductive system.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Define gene and explain the functions of the gene.
2. Discuss the various stages of the menstrual cycle.
3. Organization of nervous system.
4. Structure and functions of pituitary gland.
5. Role of RAS in kidney.
6. Different types of salivary glands, composition of saliva.
7. Protein synthesis.
8. Describe the structure and functions of liver.
9. Draw a neat diagram of a neuron and discuss briefly on action potential.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. What is resuscitation?
2. Diabetes mellitus.
3. Spermatogenesis.
4. Give the composition of bile.
5. Define vital capacity.
6. BMR.
7. Creatine phosphate.
8. Role of different hormones in parturition.
9. Artificial respiration.
10. Components of DNA.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BPHARM 0321]**

**MARCH 2021**

**Sub. Code: 2014**

**(SEPTEMBER 2020 EXAM SESSION)**

**B. PHARMACY DEGREE EXAMINATION**

**PCI Regulation SEMESTER – II**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY – II**

***Q.P. Code : 562014***

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions.**

**(2 x 10 = 20)**

1. a) Describe anatomy and physiological functions of Thyroid gland.  
b) Explain the consequence of hypothyroidism and hyperthyroidism.
2. Discuss in detail the anatomy and functions of Male reproductive system.
3. Write in detail about physiology of Urine formation. Adds a note on micturition.

**II. Write notes on: Answer any SEVEN questions.**

**(7 x 5 = 35)**

1. Write about Oogenesis.
2. Enlist the function of the Liver.
3. Give the composition and function of Cerebrospinal fluid.
4. Add a note on artificial respiration.
5. Describe organization of the Nervous system.
6. Reflex action.
7. Define and classify hormones.
8. Discuss Fertilization.
9. Role of Renin Angiotensin system in kidney.

**III. Short answers on: Answer ALL questions.**

**(10 x 2 = 20)**

1. Give the composition of bile.
2. Function of neuroglia.
3. Define vital capacity.
4. What is Spermatogenesis.
5. What is GFR. Give its normal values.
6. Hormones of parturition.
7. Draw a neat diagram of neuron and label it.
8. List out the properties of nerve fiber.
9. What is the importance of meninges.
10. Functions of Cerebrum and Cerebellum.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BPHARM 0122]**

**JANUARY 2022  
(MARCH 2021 EXAM SESSION)**

**Sub. Code: 2014**

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)**

**PCI Regulation 2017 – SEMESTER II**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY – II**

***Q.P. Code : 562014***

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Discuss the anatomy of Respiratory organs with neat labeled diagram and explain the mechanism of Respiration.
2. Give the physiological functions of Female Sex hormones. Discuss the various stages of Menstrual Cycle.
3. Draw a neat diagram and describe the organs of Digestive system. Explain their role in digestion of food.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Mention the physiological significance of BMR.
2. Write short notes on Genes.
3. List out the function of Kidney and Urinary tract.
4. Discuss Cranial nerves and its function.
5. Role of Kidneys in acid base balance.
6. Describe ventricles of the Brain.
7. Diagrammatically explain the events involved in an action potential.
8. Draw and describe the structure of Nephron.
9. Write short notes on Male Sex Hormones.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. What is cholecystitis?
2. Function of Uterus.
3. Define Synapse.
4. What is transcription and translation?
5. Define Chromosomes.
6. Define Residual and Tidal volume.
7. What are the functions of Gall bladder?
8. Define Saliva and its functions.
9. Cerebrospinal fluid.
10. Define ingestion and defecation.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BPHARM 0522]**

**MAY 2022**

**Sub. Code: 2014**

**(SEPTEMBER 2021 EXAM SESSION)**

**B. PHARMACY DEGREE EXAMINATION**

**PCI Regulation SEMESTER - II**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY – II**

***Q.P. Code : 562014***

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions.**

**(2 x 10 = 20)**

1. Describe the anatomical parts of the Brain. Add a note on its functions.
2. Classify the hormones of Pituitary gland. Give the physiological functions and disorders of growth hormones.
3. With a neat labeled diagram explain the anatomy of Kidney and Nephron and its functions.

**II. Write notes on: Answer any SEVEN questions.**

**(7 x 5 = 35)**

1. Discuss the process of digestion in the Small Intestine.
2. Write a note on meninges of Brain.
3. Formation and role of ATP.
4. Add a note on receptor and its type.
5. Describe Adrenal cortex disorder.
6. Define Pregnancy and add stages of pregnancy.
7. Write about neurotransmitters with examples.
8. Describe the role of pepsin in protein digestion.
9. Short note on Neuroglia.

**III. Short answers on: Answer ALL questions.**

**(10 x 2 = 20)**

1. Define Hypoxia.
2. Write the role of pancreas in digestion of food.
3. What are the constituents of Saliva?
4. Write the function of Hypothalamus.
5. Explain the role of bile salts.
6. What is respiration?
7. Define ganglia.
8. Write the function of placenta.
9. Define Genetic code.
10. What are Androgens and Estrogens?

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BPHARM 1022]**

**OCTOBER 2022  
(MARCH 2022 EXAM SESSION)**

**Sub. Code: 2014**

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)**

**PCI Regulation 2017 – SEMESTER II**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY – II**

***Q.P. Code : 562014***

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. a) Explain about structure and functions of kidney.  
b) Give a brief note on urine formation.
2. Draw the neat diagram of brain and explain the anatomy and physiology of cerebrum and Cerebellum.
3. a) Draw the neat diagram of endocrine system and explain the anatomy and physiology of pituitary gland.  
b) Elaborate the hyper and hypo secretion of anterior pituitary gland.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Short notes on respiratory system.
2. Structure and functions of stomach.
3. Describe the protein synthesis.
4. Write a brief note on pregnancy and parturition.
5. Discuss about the formation and role of ATP.
6. Genetic pattern of inheritance.
7. Name the various disorders associated with respiratory system.
8. Give note on anatomy and functions of liver.
9. Composition and functions of pancreatic juice.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Micturition reflex.
2. Functions of hypothalamus.
3. Short answer on gene.
4. Give short notes on Oogenesis.
5. Give disorders of kidney.
6. Note on action potential.
7. Hashimoto's disease.
8. Neuroglia.
9. Give male and female sex hormones.
10. Give a composition of saliva.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[B.PHARM 0323]**

**MARCH 2023  
(SEPTEMBER 2022 EXAM SESSION)**

**Sub. Code: 2014**

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)  
PCI Regulation 2017 – SEMESTER II  
PAPER I – HUMAN ANATOMY AND PHYSIOLOGY II**

***Q.P. Code: 562014***

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Draw the neat diagram of kidney and explain the anatomy and physiology of nephron.
2. a) Explain about anatomy of female reproductive system.  
b) Give a brief note on menstrual cycle.
3. a) Draw the neat diagram of respiratory system and explain the anatomy and physiology of respiratory organs.  
b) Explain the mechanism of respiration.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Explain the anatomy of digestive system with neat labeled diagram.
2. Brief note on Oogenesis.
3. Describe the endocrine and exocrine pancreas.
4. Short notes on role of RAS in kidney.
5. Draw neat diagram of brain and its function.
6. Enumerate the composition of saliva and its function.
7. Explain the mechanism of acid formation in stomach.
8. Draw the neat diagram of neuron and its parts.
9. Write a note on anatomy and functions thyroid gland.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Define Tidal volume.
2. Give composition of bile.
3. Short answer on DNA.
4. Spermatogenesis.
5. Give disorders of GIT.
6. Note on action potential.
7. Goiter.
8. Role of parathyroid hormones.
9. Define hormone and its functions.
10. Give a note on BMR.

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