

(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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MARCH 2019

Sub. Code: 2014

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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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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 nephropathy.
9. Vasopressin.
10. Diabetes mellitus.

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MARCH 2020

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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.
