

B.Pharm I Year II Semester (R19) Supplementary Examinations February 2023

HUMAN ANATOMY & PHYSIOLOGY - II

(For 2019, 2020 & 2021 admitted batches only)

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- | | |
|--|----|
| (a) Write the functions of medulla oblongata. | 2M |
| (b) Draw a neat labelled diagram of neuron. | 2M |
| (c) Write the functions of stomach. | 2M |
| (d) What is BMR and how to calculate BMR of an individual? | 2M |
| (e) Differentiate between internal and external respiration. | 2M |
| (f) Write the functions of the kidney. | 2M |
| (g) Write the physiological role of parathyroid hormone. | 2M |
| (h) Name the hormones released from the adrenal gland. | 2M |
| (i) List out the organs of male reproductive system. | 2M |
| (j) Define parturition. | 2M |

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- 2 Discuss in detail about the digestion and absorption of carbohydrates, proteins and fats in the gastrointestinal tract. 10M
- 3 Enlist the anterior and posterior pituitary hormones. Write the functions of posterior pituitary hormones. 10M
- 4 Draw a neat labelled diagram of female reproductive system. Explain the physiology of menstrual cycle. 10M

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Describe spermatogenesis. 5M
- 6 Explain the structure and functions of meninges. 5M
- 7 Mention the functions of thalamus and hypothalamus. 5M
- 8 Explain different lung volumes and capacities. 5M
- 9 Write a note on physiology of RAAS pathway. 5M
- 10 Explain the formation and role of ATP. 5M
- 11 Explain the exocrine and endocrine function of pancreas. 5M
- 12 Describe the function of liver. 5M
- 13 Describe the physiological role of parathyroid hormone. 5M

10/23

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK

Case No. 23-cv-00123

Part 1
Continuation of Judgment

10/02/2023

The undersigned, by and through its attorneys, has filed this continuation of judgment in accordance with the provisions of the Federal Rules of Civil Procedure. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023.

PART - B

Part B of the judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023.

PART - C

Part C of the judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023.

PART - D

Part D of the judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023.

PART - E

Part E of the judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023.

PART - F

Part F of the judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023. The judgment is being filed as a continuation of the judgment entered in Case No. 23-cv-00123 on 09/28/2023.

B.Pharm I Year II Semester (R19) Regular Examinations November 2022

HUMAN ANATOMY & PHYSIOLOGY – II

(For 2021 admitted batch only)

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- | | |
|--|----|
| (a) What are the neurotransmitters of brain? | 2M |
| (b) List out the meninges covering the brain. | 2M |
| (c) Write about the basic anatomy of the wall of stomach. | 2M |
| (d) What are the steps involved in the formation of ATP. | 2M |
| (e) List the artificial methods of respiration. | 2M |
| (f) Draw a neat labelled diagram of nephron. | 2M |
| (g) Write about the functions of thyroid hormone. | 2M |
| (h) Write about the disorders of thyroid gland. | 2M |
| (i) Draw a neat labelled diagram of testes. | 2M |
| (j) Define transcription and translation in protein synthesis. | 2M |

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- 2 (a) Explain in detail about menstrual cycle and its associated physiological changes in ovary and uterus. 6M
- (b) Explain the genetic pattern of inheritance. 4M
- 3 (a) Write in detail about the composition of secretions from Gastrointestinal tract and its accessory organs. 6M
- (b) Explain in detail about the steps involved in digestion of various nutrients. 4M
- 4 (a) Write about the physiology of respiration and elaborate about the lung volumes and capacities. 6M
- (b) Write about the structure of kidney. 4M

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Write in detail about the anatomy of liver and pancreas. 5M
- 6 Write in detail about the structure and functions of cerebrum. 5M
- 7 Write about the physiology of urine formation. 5M
- 8 Explain about neuron and its electrophysiology. 5M
- 9 Write about the mechanism of hormone action. 5M
- 10 Write in detail about the adrenal gland and its hormones. 5M
- 11 Explain in detail about spermatogenesis. 5M
- 12 Explain in detail about the protein synthesis. 5M
- 13 Write in detail about the upper respiratory tract. 5M

B.Pharm I Year II Semester (R19) Supplementary Examinations September/October 2021
HUMAN ANATOMY & PHYSIOLOGY – II

Time: 3 hours

Max. Marks: 75

PART – A
 (Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Describe the formation and functions of cerebrospinal fluid.
 - Discuss about the neurotransmitters in peripheral nervous system.
 - What are the different phases of gastric secretion?
 - Write the functions of liver.
 - Define vital capacity and tidal volume.
 - Discuss the functions of kidney.
 - Give a brief note on disorders of thyroid gland.
 - What is goiter?
 - Mention the female reproductive hormones.
 - Discuss the physiology of parturition.

PART – B
 (Answer any two questions: 02 X 10 = 20 Marks)

- What is reflex action and discuss about reflex arc?
- Write the anatomy and functions of cerebrum.
- Discuss the importance of respiratory system.
- Give a brief note on Internal respiration.
- Discuss the regulation of hormonal secretion of pituitary gland.
- Explain the physiology of pregnancy.

PART – C
 (Answer any seven questions: 07 X 05 = 35 Marks)

- Write a short note on neuralgia and synapse.
- Classify neurons based on their structure and functions.
- Enumerate the composition and functions of gastric juices.
- Give a brief note on role of pepsin in digestion of proteins.
- Draw a neat labelled diagram of Nephron.
- Discuss the importance of Lymphatic system.
- What are the functions of Thymus gland?
- Write a brief note on Pineal gland.
- Give the anatomical considerations of female reproductive system.
- Write an illustrative note on physiology of menstruation.

Contd. in page 2

Code: BP201T

- 10 (a) Describe the absorption of digested food material from GIT.
(b) Write a short note on BMR.
- 11 Write a short note on artificial respiration.
- 12 (a) What do you know about EEG?
(b) Give a brief note on Meninges.
- 13 (a) What are the functions of testosterone?
(b) Write a note on disorders of pancreas.

B.Pharm I Year II Semester (R19) Supplementary Examinations September 2022

HUMAN ANATOMY & PHYSIOLOGY – II

(For 2019 & 2020 admitted batch only)

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write about the functions of hypothalamus.
 - Write about the composition of cerebrospinal fluid.
 - Write about the functions of saliva.
 - What is Basal metabolic rate?
 - Explain the total lung capacity and inspiratory capacity.
 - Draw a neat labelled diagram of nephron.
 - Write about the functions of thyroid hormone.
 - Write about the disorders of pancreas.
 - Write about the hormones involved in regulation of oogenesis.
 - Define transcription and translation in protein synthesis.

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- Write in detail about the hormones of pituitary gland and explain their functions.
- Write in detail about the anatomy of alimentary canal.
- Explain in detail about the anatomy of urinary system.

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- Write in detail about the steps involved in digestion of proteins.
- Write in detail about the nervous tissue.
- Write about the physiology of urine formation.
- Explain about neuron and its electrophysiology.
- Write about pancreas and explain about its secretions.
- Write in detail about the adrenal gland and its hormones.
- Explain in detail about various stages of pregnancy.
- Explain in detail about the protein synthesis.
- Write in detail about lower respiratory tract.

B.Pharm I Year II Semester (R19) Supplementary Examinations April/May 2022

HUMAN ANATOMY & PHYSIOLOGY – II

(For 2020 admitted batches only)

Time: 3 hours

Max. Marks: 75

PART – A

(Computatory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write the organization of nervous system.
 - Write a note on neuralgia.
 - Write the composition of gastric juice.
 - What is pepsin? Write the role of pepsin in digestion.
 - Write a short note on wind pipe.
 - Write a short note on artificial respiration.
 - Write the classification of hormones.
 - List out the hormones related to hypothalamus.
 - Draw a neat labelled diagram of sperm cell.
 - Write a note on female sex hormones.

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- 2 (a) Write about the electrophysiology in CNS.
(b) Write a note on neurotransmitters.
- 3 (a) Explain the mechanism of respiration.
(b) Explain the physiology of urine formation.
- 4 (a) Explain the physiology of menstruation
(b) Write a note on genetic pattern of inheritance

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 What are synapses and explain anyone?
- 6 What is reflex arc and explain the spinal reflexes?
- 7 Explain the mechanical digestion in the small intestine.
- 8 Write a note on formation and role of ATP.
- 9 Explain about the regulation of respiration.
- 10 Describe the structure and write the functions of adrenal gland.
- 11 Describe the process of spermatogenesis.
- 12 Write a note on protein synthesis.
- 13 Explain the role of RAS in kidney.

HUMAN ANATOMY & PHYSIOLOGY – II

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write a note on action potential in neuron.
 - (b) Write the functions of CSF.
 - (c) Give a note on neuronal regulation of acid secretion.
 - (d) Write about the role of creatinine phosphate.
 - (e) Write a note on gaseous exchange in lungs.
 - (f) Draw a neat labelled diagram of nephron.
 - (g) List out the pituitary hormone.
 - (h) Write a note on hyperthyroidism.
 - (i) What are male sex hormones and give a note on Leydig cells?
 - (j) Write a note on nucleic acids.

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- 2 (a) Explain the endocrine role of pancreas.
- (b) Describe the structure and functions of adrenal cortex and their secretions.
- 3 (a) Explain the chemical digestion involved in the stomach.
- (b) Write the composition and functions of pancreatic juice.
- 4 (a) Write a note on transport of respiratory gases.
- (b) Write about the role of kidneys in acid base balance.

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Write a note on nerve impulse conduction with examples.
- 6 Write the structure and function of efferent nerve tracts in spinal cord.
- 7 Explain the movements involved in digestion process in the G.I.T.
- Write a short note on BMR.
- Explain the gaseous exchange in the respiratory system.
- Describe the structure and write the functions of parathyroid gland.
- Describe the process of micturition reflex.
- Write a short note on chromosomes.
- Write a short note on lung volumes and capacities.

B.Pharm I Year II Semester (R19) Regular Examinations November 2020
HUMAN ANATOMY & PHYSIOLOGY – II

Time: 3 hours

Max. Marks: 75

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) What are the functions of medulla oblongata and pons?
 - (b) Mention the anatomical location and functions of Cerebellum.
 - (c) Write composition and functions of gastric juice.
 - (d) Name the salivary glands and functions of their secretions.
 - (e) With a neat labeled diagram, write the functions of nephron.
 - (f) Define vital capacity. Write its normal value.
 - (g) What is goiter?
 - (h) Write the functions of ADH and oxytocin.
 - (i) What is contraception name few contraceptive methods?
 - (j) What is DNA and inheritance?

PART – B
(Answer any two questions: 02 X 10 = 20 Marks)

- (a) Describe the meninges and ventricles in the brain.
- (b) Explain the mechanism of respiration.
- (a) Write the anatomy of pancreas. Discuss the endocrine and exocrine secretions of pancreas.
- (b) Discuss the role of kidneys in acid base balance.
- (a) Explain the physiological role of adrenal cortical hormones.
- (b) Briefly explain anatomy of male reproductive system.

PART – C
(Answer any seven questions: 07 X 05 = 35 Marks)

- (a) Write effects of parasympathetic stimulation.
- (b) Give a note on functions of hypothalamus and Cerebrum.
- (a) Give a note on anatomy and functions of salivary glands.
- (b) Write about digestion of Carbohydrates
- (a) Write the role of chemo receptors in respiration
- (b) What is Internal and External respiration?
- (a) Define micturation and add a note on micturation reflex.
- (b) What is renal clearance test? Mention its types?
- (a) Write a short note on disorders of thyroid gland.
- (b) Discuss briefly about feedback mechanisms involved in the secretion of hormones

Contd. in page 2

B.Pharm I Year II Semester (R19) Regular Examinations November/December 2021
HUMAN ANATOMY & PHYSIOLOGY – II

Time: 3 hours

Max. Marks: 75

PART – A
(Compulsory Question)

.....

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write a note on action potential in neuron.
 - (b) Write the functions of CSF.
 - (c) Give a note on neuronal regulation of acid secretion.
 - (d) Write about the role of creatinine phosphate
 - (e) Write a note on gaseous exchange in lungs.
 - (f) Draw a neat labelled diagram of nephron
 - (g) List out the pituitary hormone.
 - (h) Write a note on hyperthyroidism
 - (i) What are male sex hormones and give a note on Leydig cells?
 - (j) Write a note on nucleic acids.

PART – B
(Answer any two questions: 02 X 10 = 20 Marks)

- 2 (a) Explain the endocrine role of pancreas.
- (b) Describe the structure and functions of adrenal cortex and their secretions
- 3 (a) Explain the chemical digestion involved in the stomach.
- (b) Write the composition and functions of pancreatic juice.
- 4 (a) Write a note on transport of respiratory gases.
- (b) Write about the role of kidneys in acid base balance.

PART – C
(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Write a note on nerve impulse conduction with examples.
- 6 Write the structure and function of efferent nerve tracts in spinal cord
- 7 Explain the movements involved in digestion process in the G.I.T.
- 8 Write a short note on BMR.
- 9 Explain the gaseous exchange in the respiratory system
- 10 Describe the structure and write the functions of parathyroid gland
- 11 Describe the process of micturition reflex
- 12 Write a short note on chromosomes
- 13 Write a short note on lung volumes and capacities

.....

B.Pharm I Year II Semester (R19) Regular Examinations November 2020
HUMAN ANATOMY & PHYSIOLOGY – II

Time: 3 hours

Max. Marks: 75

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- What are the functions of medulla oblongata and pons?
 - Mention the anatomical location and functions of Cerebellum.
 - Write composition and functions of gastric juice.
 - Name the salivary glands and functions of their secretions.
 - With a neat labeled diagram, write the functions of nephron.
 - Define vital capacity. Write its normal value.
 - What is goiter?
 - Write the functions of ADH and oxytocin.
 - What is contraception name few contraceptive methods?
 - What is DNA and inheritance?

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- Describe the meninges and ventricles in the brain.
 - Explain the mechanism of respiration.
- Write the anatomy of pancreas. Discuss the endocrine and exocrine secretions of pancreas.
 - Discuss the role of kidneys in acid base balance.
- Explain the physiological role of adrenal cortical hormones.
 - Briefly explain anatomy of male reproductive system.

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- Write effects of parasympathetic stimulation.
 - Give a note on functions of hypothalamus and Cerebrum.
- Give a note on anatomy and functions of salivary glands.
 - Write about digestion of Carbohydrates.
- Write the role of chemo receptors in respiration.
 - What is Internal and External respiration?
- Define micturition and add a note on micturition reflex.
 - What is renal clearance test? Mention its types?
- Write a short note on disorders of thyroid gland.
 - Discuss briefly about feedback mechanism involved in the secretion of hormones.

Code: BP201T

- 10 (a) Give a note on anatomy and functions of parathyroid gland.
(b) Describe the functions of ovary.
- 11 (a) Discuss how digestion of protein takes place.
(b) Write a short note on menstrual cycle.
- 12 (a) What is parturition?
(b) What is synaptic cleft? State its function.
- 13 (a) Draw a neat and labelled schematic diagram of spinal reflex arc.
(b) Briefly explain protein synthesis.
-