

Code: 17T00101

Pharm.D I Year Regular & Supplementary Examinations November/December 2022

**HUMAN ANATOMY & PHYSIOLOGY**

(For 2017, 2018, 2019, 2020 & 2021 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
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|---|----|
| (a) Classify tissues, and write the location and function of muscular tissues.                      | 2M |
| (b) Define bone, classify them with examples. Add a note on bones in facial bones.                  | 2M |
| (c) Describe the various factors involved formation of blood.                                       | 2M |
| (d) Define the following:<br>(i) Anemia. (ii) Angina pectoris. (iii) Hypertension. (iv) Hemophilia. | 2M |
| (e) Draw a neat labeled diagram of urinary system.  | 2M |
| (f) Describe the functions of thalamus and hypothalamus.  | 2M |
| (g) Give a brief note on location and function of thyroid gland.                                    | 2M |
| (h) Write the functions of gonads.  | 2M |
| (i) Draw a neat labeled diagram of ear.   | 2M |
| (j) Role of respiration and body heat in exercise.  | 2M |

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

- 2 (a) What are tissues, classify them with examples. Explain in detail about the epithelial and connective tissue. 6M  
(b) Define joint. Classify them with examples and write in detail about role of synovial joints. 4M
- OR**
- 3 (a) Draw a neat labeled diagram of human cell. Add a note on functions of cell organelles. 5M  
(b) What are tissues, classify them with examples. Explain in detail about the muscular and connective tissue. 5M
- 4 (a) Explain in detail about composition and function of blood. Add a note on various blood disorders. 5M  
(b) Describe in detail about various events take place in cardiac cycle. Add a note ECG. 5M
- OR**
- 5 (a) What is lymph, explain the functions of lymph. Add a note on structure and function of spleen. 4M  
(b) Write the physiology of heart and explain about various blood pressure regulation mechanism. 6M
- 6 (a) Explain in detail about various vital regions of brain; enumerate the synthesis and functions of CSF. 5M  
(b) Write in detail about the process of digestion and absorption of food in GIT. 5M
- OR**
- 7 (a) Write in detail about physiology of respiration. Add a note on regulations mechanisms for respiration. 5M  
(b) What are accessory organs for digestion? Explain in detail about anatomy and physiology of liver. 5M

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- 8 (a) Draw a neat labeled diagram of nephron. Explain in detail about formation of urine. 5M  
(b) Describe the histology of pituitary gland along with its functions. 5M
- OR**
- 9 (a) Discuss in detail about physiology of menstruation. 5M  
(b) What are corticosteroids and explain the function of glucocorticoids? 5M
- 10 (a) Draw a neat labeled diagram of eye and explain about the physiology of vision. 5M  
(b) Draw a neat labeled diagram of skin and explain about the functions of skin. 5M
- OR**
- 11 (a) Draw a neat labeled diagram of EAR and explain the physiology of hearing. 5M  
(b) Write in detail about the physiology of muscle contraction. 5M

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Pharm.D I Year Advanced Supplementary Examinations April 2022

**HUMAN ANATOMY & PHYSIOLOGY**

(For 2017, 2018, 2019 & 2020 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write a note on epithelial tissues.
  - (b) Define Osteoarthritis.
  - (c) Enumerate functions of blood.
  - (d) Draw the neat labelled diagram of heart.
  - (e) Differentiate the terms digestion & absorption.
  - (f) Write a note on cranial nerves.
  - (g) Give a brief note on disorders of thyroid gland.
  - (h) Explain Menstrual cycle.
  - (i) Write about functions of skin.
  - (j) Write a short note on Salivary glands & its functions.

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

- 2 (a) Classify joints with suitable movements of joints from its location.  
(b) Name the elementary tissues of the human body and give their silent feature.
- OR**
- 3 (a) Write a note on Synovial joints.  
(b) Explain electron–microscopic structure of cell.
- 4 (a) Describe the structures & functions of heart with a neat labelled diagram.  
(b) Write a note on clotting mechanism of blood.
- OR**
- 5 (a) Mention the disorders of blood components.  
(b) Give an account of the composition and functions of blood.
- 6 (a) Describe the anatomy of lungs and physiology of respiration with diagram.  
(b) Elaborate the anatomy of human brain.
- OR**
- 7 (a) Write a note on digestion and absorption of protein.  
(b) Give a brief note on pulmonary circulation.
- 8 (a) Describe the structure, secretion & function of anterior pituitary gland.  
(b) Explain how urine is form.
- OR**
- 9 (a) Write a note on contraceptive devices.  
(b) Discuss about pancreatic islets and its hormone functions.
- 10 (a) Explain the structure and functions of skin with labelled diagram.  
(b) Write a note on physiology of vision.
- OR**
- 11 (a) Explain physiology of muscle contraction.  
(b) Write a note on drug & athletics.

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Pharm.D I Year Regular & Supplementary Examinations December 2021

**HUMAN ANATOMY & PHYSIOLOGY**

(For 2017, 2018, 2019 & 2020 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Classify tissues with suitable examples.
  - Define rheumatoid arthritis.
  - Explain the various phases of E.C.G.
  - Mention disorders of blood components.
  - Write a note on cranial nerves.
  - Define End Diastolic Volume (EDV) & Vital Capacity (VC).
  - List out the secretion from pituitary gland.
  - Explain the Oogenesis.
  - Write about functions of skin.
  - Write a short note on histology of Retina.

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

- Classify joints & explain the different types of joints with suitable examples.
    - Explain about bones of appendicular skeleton.
- OR**
- Write about anatomy & physiology of epithelial tissue.
    - Explain the structure & movement of knee joint.
  - Define cardiac cycle. Describe the various events taking place in a cardiac cycle with time sequences.
    - Discuss about circulation of blood in heart.
- OR**
- Explain the anatomy & physiology of spleen.
    - What is erythropoiesis? Explain the steps in erythropoiesis.
  - Write physiological functions of sympathetic system.
    - Write a note on spinal cord.
- OR**
- Explain the exchange of gases at alveolar & cellular level.
    - Write a short note on anatomy & physiology of cerebrum.
  - Describe kidney with a neat & labelled diagram and discuss the functions of the kidney.
    - Write short notes on disorder of pituitary gland.
- OR**
- Explain the structure & physiological functions of thyroid gland.
    - Explain diabetes mellitus & its complications.
  - Write a note on muscles in exercises.
    - What are the various refractive errors of eye? How it can be corrected?
- OR**
- Explain physiology of hearing.
    - Discuss about physiological properties of skeletal muscles.

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Pharm.D I Year Regular Examinations July/August 2018  
**HUMAN ANATOMY & PHYSIOLOGY**  
(For 2017 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART - A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define the term anatomy and physiology.
  - (b) Write the functions of nervous tissue.
  - (c) List out the normal values of RBC, WBC & platelets.
  - (d) Define Anaemia.
  - (e) Define Hypertension.
  - (f) What are the muscles involved in the mechanism of respiration?
  - (g) List out the functions of cerebellum.
  - (h) Define micturition & parturition.
  - (i) What are the hormones of thyroid gland?
  - (j) Write the functions of eye and nose.

**PART - B**  
(Answer all five units, 5 X 10 = 50 Marks)

**UNIT - I**

- 2 Discuss the structure of cell and its components along with functions.  
OR  
3 Classify joints, types of movements and disorders.

**UNIT - II**

- 4 Write about the clotting factors and its mechanism.  
OR  
5 Discuss the structure of spleen, its functions and disorders.

**UNIT - III**

- 6 Explain the mechanism involved in respiration and factors regulating respiration.  
OR  
7 Write in detail about the anatomy and functions of sympathetic and parasympathetic nervous system.

**UNIT - IV**

- 8 Define Hormone. List out the hormones and functions of anterior pituitary.  
OR  
9 Explain the physiology of menstrual cycle and genetic basis of sex determination.

**UNIT - V**

- 10 Draw a neat labeled diagram of ear and explain its functions.  
OR  
11 Explain the physiological exercises for lungs and heart. Add a note on drugs abuse in sports.

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Code: 17T00101

Pharm.D I Year Regular & Supplementary Examinations July/August 2019

**HUMAN ANATOMY & PHYSIOLOGY**

(For 2017 & 2018 admitted batches only)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Mention different types of tissues.
  - (b) Enlist different disorders of blood.
  - (c) Write the functions of lymph.
  - (d) Explain the heart sounds.
  - (e) What is absorption?
  - (f) Write the functions of gastric juices.
  - (g) What are the functions of SNS?
  - (h) What is micturition?
  - (i) What are the functions of gonads?
  - (j) Write about the contraceptive devices.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

- 2 Describe the structure and functions of skeletal system.
- OR**
- 3 Describe the anatomy and functions of cell with diagram.
- 4 Explain different blood groups and write about Rh factor.
- OR**
- 5 Describe the anatomy and functions of heart.
- 6 Write about the mechanism and regulation of respiration.
- OR**
- 7 Describe the anatomy and physiology of mid brain.
- 8 Describe the process of formation of urine.
- OR**
- 9 Explain about the female reproductive system.
- 10 Explain the physiology and functions of eye.
- OR**
- 11 Discuss about drugs-athletics and muscle in exercise.

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Code: 14T00101/ T0810001

Pharm.D I Year Advanced Supplementary Examinations January 2018

**HUMAN ANATOMY & PHYSIOLOGY**

(For 2016 and prior to 2016 admitted batches only)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Give an account on classification of nervous system.  
(b) Discuss the anatomy and physiology of mid brain.  
(c) Write the functions of sympathetic nervous system.
- 2 (a) With a neat and labeled diagram, describe the structure of GIT.  
(b) Discuss about the process (or) mechanism involved in digestion and absorption.
- 3 (a) Explain in detail about composition and functions of blood.  
(b) Discuss about the disorders of blood components.
- 4 (a) Draw a neat and labeled diagram of kidney.  
(b) Write physiological functions of kidney.  
(c) Add a note on glomerular filtration rate.
- 5 (a) Explain the structure and physiological functions of thyroid gland.  
(b) Add a note on the disorders of thyroid gland.
- 6 (a) Define a cardiac cycle.  
(b) Draw a neat & labeled diagram of heart.  
(c) Describe various events falling place in a cardiac cycle with time sequences.
- 7 (a) Explain various phases of menstrual cycle.  
(b) Add a note on contraceptive devices.
- 8 (a) Write short notes classification of joints.  
(b) Write the structure of skin and physiological functions of skin.

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Code: 14T00101 / T0810001

Pharm.D I Year Regular & Supplementary Examinations July 2017  
**HUMAN ANATOMY & PHYSIOLOGY**  
(For 2016 and prior to 2016 admitted batches only)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Write the composition and functions of blood.  
(b) Explain the importance of blood grouping.
- 2 (a) Explain the transport of respiratory gases.  
(b) Differences between somatic and autonomic nervous system and sympathetic and parasympathetic nervous system.
- 3 (a) Explain the digestion of food in GIT.  
(b) Write the functions of liver.
- 4 (a) Explain regulation of release and physiological role of thyroid hormone.  
(b) Name the hormones of pancreas, gonads, posterior pituitary and adrenal glands.
- 5 (a) Explain the physiology of hearing.  
(b) Explain the types of reflexes with examples.
- 6 (a) Explain the role of Renin angiotensin system.  
(b) Explain the physiology of muscle contraction.
- 7 (a) Draw a neat labeled diagram of interior of heart showing direction of blood flow in heart.  
(b) Explain the different waves of electrocardiogram (ECG).
- 8 (a) Mention the different contraceptive devices and write their merits and demerits.  
(b) Explain the process of Oogenesis.

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