

D3501216

GOVERNMENT OF KARNATAKA

(BOARD OF EXAMINING AUTHORITY)

D. Pharm. Part – I Examinations (ER-91), December -2016

HUMAN ANATOMY AND PHYSIOLOGY

Time : 3 Hrs

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

SECTION – A

4 X 10 = 40

01. What are connective tissues? Give examples. Write the functions of connective tissue.
02. What is clotting and explain the physiology of clotting
03. What is osteology? Write the functions of skeletal system
04. Write the differences between the arteries and veins
05. Explain the physiology of both internal and external respirations
06. Classify muscles and explain the physiology of skeletal muscle contraction.
07. Name any two renal and two cardiovascular diseases
08. Define cardiac cycle and name various stages in it.
09. Define the following: a) Vital capacity, b) Neutropenia, c) Blood pressure and d) Cretinism
10. What is lymph and write the functions of it
11. Name different diseases of eye and explain myopia
12. Write the differences between sympathetic and parasympathetic systems
13. List out the hormones secreted by anterior and posterior pituitary gland

SECTION – B

14. a) Draw a neat labeled diagram of heart and explain the physiology of systemic circulation and pulmonary circulation
 - b) Explain the physiology of hearing with diagram. 8+6
- OR**
- a) Classify joints with examples and discuss synovial joints
 - b) Write the different types of vertebrae and write names of bones in skull 7+7
15. a) Write anatomy and physiology of pancreas
 - b) What is menstrual cycle? Explain the phases of menstrual cycle. 6+7
16. What is digestion and absorption? List out various enzymes involved in digestion of Food. Explain the structure and functions of stomach. 7+6
17. a) Explain the structure and functions of cerebrum with diagram and explain the role of hypothalamus in CNS functioning.
 - b) What is Reflex Arc? Explain it with diagram. 7+6

12/12/15
D3501215

**GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)**

D. Pharm. Part – I Examinations (ER-91), December -2015

HUMAN ANATOMY AND PHYSIOLOGY

Time : 3 Hrs

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

SECTION – A

4 X 10 = 40

01. What is erythropoiesis? Enumerate different stages of it.
02. What is ganglion? Write the structure if it. Name the neurotransmitter released in ganglia.
03. Explain the structure of stomach with a neat labeled diagram.
04. Write the anatomical location of salivary gland and the functions of salivary gland.
05. Explain the structure and functions of skin.
06. Write the functions of RBC.
07. Write the normal values of:
a) Blood pressure b) Hemoglobin c) Respiratory rate d) Body temperature.
08. Write the structure and functions of spleen.
09. Name the bones of upper limb.
10. Cardiac cycle.
11. Define the following: a) Glaucoma b) Hypertension c) Myopia d) Absorption.
12. Explain reflex arc with a neat labeled diagram.
13. Name the types of muscles and write the functions of skeletal muscle.

SECTION – B

14. Draw a neat labeled diagram of eye and explain the physiology of vision. What are the different defects of vision? **6+5+3 = 14**

OR

- a) Name different hormones secreted by the following a) Adrenal gland b) thyroid gland c) Pituitary gland. **5+5+4 = 14**
- b) Write the physiology of menstrual cycle. **5+5+4 = 14**
15. a) Write clotting mechanism of blood. **8 + 5 = 13**
b) Incompatibilities of blood groups and explain different types of anemia. **8 + 5 = 13**
16. a) Draw a neat labeled diagram of respiratory system and explain the physiology of both internal and external respiration. **7+6 = 13**
- 17 a) What is lymph? Name any four different lymph nodes and functions of lymph. **2+2+4+5 = 13**
b) Write the structure and functions of tongue. **2+2+4+5 = 13**

D3501217

**GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)**

D.PHARM., PART-II EXAMINATIONS(ER-91), DECEMBER-2017

Human Anatomy and physiology

TIME-3Hrs

Max. Marks-80

Note:- Answer any **TEN** questions from **Section-A** and **THREE** from **Section-B** including Question No. 14, which is compulsory

SECTION-A

4 X 10 =40

1. Write the important functions of Mitochondria, Lysosomes, Golgi apparatus and Ribosomes.
2. Classify tissues with example. Explain the structure of muscular tissues.
3. Explain the events involved in cardiac cycle.
4. Explain ABO system of blood grouping.
5. Write the factors affecting the blood pressure.
6. List the names of cranial and facial bones.
7. Describe the physiology of skeletal muscle contraction.
8. Write the types of synovial joints with examples.
9. Explain the functions of spleen and lungs.
10. Draw a neat labelled diagram of internal structure of ear.
11. Name any two respiratory and joint disorders.
12. Write a note on menstrual cycle.
13. Write the structure and functions of reflex arc.

SECTION-B

14. Draw neat labelled diagram of stomach. Write composition and functions of gastric juice. Explain the systemic and pulmonary circulation of the heart. 4+4+6
- (Or)
- Draw neat labelled diagram of nephron. Explain the mechanism of urine formation. Write the composition and functions of lymph. 4+5+5
15. Draw a neat labelled diagram of internal structure of heart. Write the physiology of oogenesis. Write the composition and functions of bile. 5+4+4
16. List out the organs involved in the respiratory system, write a neat labelled diagram of lungs. Explain the physiology of respiration. 4+4+5
17. Draw a neat labelled diagram of brain, write the location, hormones and functions of thyroid and pancreas. Write the function of cerebrum and medulla oblongata. 4+5+4

HUMAN ANATOMY AND PHYSIOLOGY

Note: Answer any ten questions from Section-A and three from Section -B including Question No.14, which is compulsory.

SECTION A

1. Classify leucocytes and write their functions. 4X10
2. Explain Pulmonary circulation.
3. Write functions of CSF.
4. Describe reflex arc with diagram.
5. List the function of Liver.
6. Draw a labelled diagram of Neuron.
7. Explain digestion of carbohydrates.
8. Define: a) Cretinism b) Cardiac output c) Hypertension d) Gout.
9. Name the salivary glands and write a note on their secretion.
10. Name the bones of upper limb.
11. Explain conducting tissues of Heart.
12. Draw a labelled diagram of Eye.
13. Describe Synovial Joint.

SECTION-B

14. a) Draw a neat labelled diagram of Heart showing its internal structures.
 - b) Explain Cardiac cycle. 6+8
- (Or)
- a) Draw a neat labelled diagram of the respiratory system.
 - b) Describe mechanism of Respiration. 7+7
15. a) Draw a neat labelled diagram of internal organs of female reproductive system.
 - b) Describe menstrual cycle. 6+7
16. a) Draw a neat labelled diagram of Urinary system.
 - b) Explain Formation of Urine. 6+7
17. a) Describe the three types of Muscle Tissue.
 - b) Describe structure and functions of Lymph node. 7+6

D3500120

GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)

D. Pharm. Part – I Examinations (ER-91), January-2020

HUMAN ANATOMY AND PHYSIOLOGY

Time: 3Hours

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including **Question No. 14**, which is compulsory

SECTION – A

4 x 10 = 40

1. What are epithelial tissue? Give examples. Write their functions.
2. What are Joint? Classify synovial joints with examples
3. Write the composition and functions of lymph.
4. Mention the functions of liver.
5. Classify WBC with examples.
6. List out the clotting factors.
7. Draw a neat labelled diagram of skin.
8. Write the differences between sympathetic and para-sympathetic nervous system.
9. Define a) Dwarfism b) CCF c) Myopia d) Hypertension
10. Explain the physiology of muscle contraction.
11. Name the bones and sutures of cranium.
12. Draw a neat labelled diagram of neuron
13. Write the functions of saliva.

SECTION – B

14. A. a) Draw a neat labelled diagram of eye
b) Describe the mechanism of vision
c) Explain mechanism long sight

(5+6+3)

OR

- B. a) Discuss the structure and functions of heart
b) Define angina
c) Discuss events of cardiac cycle
15. a) Write the anatomy and physiology of pancreas
b) Explain the structure and functions of adrenal gland.
16. a) Describe the structure of Nephron
b) Write the mechanism of urine formation
17. a) Describe the structure and functions of brain.
b) What is reflex arc? Explain it with diagram

(6+2+6)

(6+7)

(6+7)

(6+7)

GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
 D. Pharm. Part – I Examinations (ER-91), June -2019
HUMAN ANATOMY AND PHYSIOLOGY

Time : 3 Hrs

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

SECTION-A

4 X 10 =40

- 1) Define Blood Pressure and write the factors determining BP.
- 2) Define and label lymph node. Mention its uses.
- 3) Define a) Cataract b) Gout c) Cardiac output d) Reflex arc
- 4) Classify connective tissue with example.
- 5) Write the composition and functions of gastric juice.
- 6) Classify, give normal count and functions of blood cells.
- 7) Write the functions of liver.
- 8) Draw and label T/S of spinal cord
- 9) Draw neat labeled diagram of ear and explain the mechanism of hearing.
- 10) Name the hormones of anterior pituitary gland state their role in the body.
- 11) Describe the physiology of muscle contraction.
- 12) Name the bones of appendicular skeleton.
- 13) Draw neat labeled diagram of urinary system and write the functions of spleen.

SECTION-B

- 14) a) With the labeled diagram, describe the structure of nephron.
- b) Write the mechanism of urine formation
- c) Draw neat labeled diagram of skin, Mention its uses.

5+4+5

OR

- a) With neat labeled diagram explain internal structure of heart.
 - b) Draw a neat labeled diagram of lungs and explain the mechanism of respiration.
- 15) a) Classify WBC with example and mention their functions.
- b) Write the anatomy of male reproductive system.
- c) Which blood group is called as universal donor and universal recipient and why. 6+3+4
- 16) a) List out the organs involved in digestive system.
- b) List out the facial bones.
- c) Write the functions of skeletal system. 6+3+4
- 17) a) Explain the conductive system of heart.
- b) Classify nervous system and mention the functions of hypothalamus. 4+4+5
- c) Define cardiac cycle. Write various events in cardiac cycle

D3500517

GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D.PHARM, PART-I EXAMINATIONS (ER-91) MAY-2017

Time:3Hrs

HUMAN ANATOMY AND PHYSIOLOGY

Max Marks:80

NOTE: Answer any TEN questions from section A and THREE questions from section B including questions no. 14, which is compulsory.

SECTION-A

4x10 =40

01. Write any four differences between sympathetic and parasympathetic nervous system.
02. Draw a neat labeled diagram of a neuron.
03. Explain pulmonary circulation.
04. Explain the mechanism of clotting.
05. Describe reflex action with a neat labeled diagram of reflex arc.
06. Name the bones and sutures of cranium.
07. What are synovial joints? Name any four of them.
08. List out the functions of blood.
09. Discuss the physiology of respiration.
10. Draw a neat labeled diagram of section of a tooth.
11. Write the composition of gastric juice and the role of any two components of it.
12. Write about the megaloblastic anaemia.
13. Define a) hormone, b) gout, c) clotting and d) enzyme

SECTION - B

14. a) Draw a neat labeled diagram of vertical section of eye.
b) Describe mechanism of vision.
c) Describe short sight.

OR

- a) Name the hormones secreted by anterior pituitary gland and write their functions.
 - b) Explain the endocrine functions of ~~functions.~~ *pancreas*
 - c) List the functions of thyroid gland
15. a) Mention the functions of liver.
b) Write a note on saliva.
c) Describe digestion of carbohydrates
16. a) Discuss the structure and functions of ovary.
b) Draw a neat diagram of internal organs of female reproductive systems
c) List out the functions of spleen
17. a) Write a note on lungs.
b) Describe the internal structures of heart with a neat labeled diagram.
c) Write about Rh factor.

Q 14b Correction announced
as per board instructions
SMS

5 + 6 + 3 = 14

6 + 4 + 4 = 14

4 + 4 + 5 = 13

5 + 4 + 4 = 13

3 + 7 + 3 = 13

Antyaz
Tushad W801028
W811015

(R)
W826029

Sahadev
12/1/17
8-30 AM
Chyf Synd.

D3500518

GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)
D. PHARM PART I EXAMINATIONS (ER – 91), MAY 2018
HUMAN ANATOMY & PHYSIOLOGY

TIME: 3 Hrs.

Max Marks: 80

NOTE: Answer any TEN questions from Section – A and THREE from Section – B including **Question No. 14**, which is compulsory.

SECTION A

4×10 =40

1. Explain the structure of plasma membrane.
2. Classify tissue and explain muscular tissue
3. Draw a neat labeled diagram of neuron.
4. Explain the process of erythropoiesis.
5. Write the composition and functions of blood.
6. Explain the events involved in cardiac cycle.
7. What is lymph? Write the composition and functions of lymph.
8. Explain menstrual cycle.
9. Write the structure and functions of skin.
10. Define the following terms a) hypertension b) hormone c) gigantism d) haemoglobin.
11. Write the composition and functions of saliva.
12. Describe the structure of kidney.
13. Classify joints with example.

SECTION B

14. Describe the mechanism of blood coagulation. Explain ABO system of blood grouping. 7+7

OR

- A) Describe the anatomy of liver with a neat labeled diagram. Explain the functions of liver.
- B) Discuss the internal and external mechanism of respiration. 7+7
15. A) Explain the physiology of hearing with a neat labeled diagram of ear.
- B) Explain pulmonary and systemic circulation of heart. 7+6
16. A) Name the hormones secreted by pituitary gland. Write the functions of anterior pituitary gland.
- B) Write the physiology of urine formation. 3+5+5
17. A) Write the structures of reflex arc and mention the functions of reflex action.
- B) Explain the physiology of spermatogenesis
- C) Write the types of vertebrae and name the bones of skull 4+4+5

GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)
 D. Pharm. Part – I Examinations (ER-91), APRIL 2016
HUMAN ANATOMY AND PHYSIOLOGY

Time: 3Hours

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

SECTION – A

4X10=40

1. Explain the structure and functions of mitochondria.
2. Classify joints with examples.
3. Write the functions of blood.
4. Explain the pulmonary circulation.
5. Explain mechanism of respiration.
6. Mention composition and functions of saliva.
7. With a neat labeled diagram, explain structure of nephron.
8. Write the composition and functions of cerebrospinal fluid.
9. Define the terms a) Hypertension b) Congestive cardiac failure c) Peptic ulcer
d) Appendicitis.
10. Write the functions of skin.
11. In brief explain spermatogenesis.
12. Mention the functions of thyroid glands.
13. Write the functions of lymph node.

SECTION – B

14. Explain the anatomy of heart with the help of a neat labeled diagram. Define cardiac cycle and explain various events that occur during cardiac cycle. 7+7

OR

Describe mechanism of blood coagulation. Explain ABO system of blood grouping. 7+7

15. Define and classify nervous system. Write neat labeled diagram of reflex arc.
Enumerate the functions of reflex action. 5+4+4
16. Describe the anatomy of Liver with a neat labeled diagram. Explain functions of liver. 6+7
17. a) Name the hormones secreted by pituitary gland. Write the functions of anterior pituitary gland.
- b) Draw a neat labeled diagram of eye. (3+5) +5