



UNIVERSITY OF THE PUNJAB

First Prof. A/2015

Examination:- Doctor of Pharmacy (Pharm.D.)

Roll No.

Subject: Anatomy/ Anatomy & Histology

PAPER: 5(Old & New Course)

TIME ALLOWED: 3 hrs.

MAX. MARKS: 50

NOTE: Attempt any FIVE questions. All questions carry equal marks.

- | | |
|---|----|
| Q. 1 Write a detailed note on Cranial nerves, name type sequence and their exit from cranial cavity through respective foramina | 10 |
| Q.2 (a) Describe conduction system of heart | 05 |
| (b) Describe anatomy of Pericardium | 05 |
| Q.3 Describe blood flow to the kidney in sequence | 10 |
| Q. 4 Write a note on female reproductive system both external and internal structures | 10 |
| Q. 5 Draw and label structure of human eye. | 10 |
| Q. 6 Write a note on topographical and general anatomy of Adrenal gland | 10 |
| Q. 7 Describe types of Epithelium and their location in different organs of body | 10 |



UNIVERSITY OF THE PUNJAB

First Prof. A/2016

Examination:- Doctor of Pharmacy (Pharm.D.)

Roll No.

Subject: Anatomy/ Anatomy & Histology
PAPER: 5(Old & New Course)

TIME ALLOWED: 3 hrs.
MAX. MARKS: 50

NOTE: Attempt any FIVE questions. All questions carry equal marks.

- Q.1 Write a note on Male Reproductive System both internal and external genital organs. 10
- Q.2 (a) Draw and label blood flow to Kidney. Renal vessels in sequence 05
b) Write a note on organelles of Cell 05
- Q.3 (a) Draw and label histology of Skin. Dermis and Epidermis 05
(b) Describe Squamous stratified epithelium 05
- Q.4 Write a note on Cranial nerves. Their origin from brain and respective foramina through which they exit from base of skull. 10
- Q.5 Draw and label topographical and general anatomy of Lungs 10
- Q.6 Write a note on anatomy of Ear. 10
- Q.7 Draw and label coronary circulation of Heart. 10



UNIVERSITY OF THE PUNJAB

First Prof. 2nd A/2016

Examination:- Doctor of Pharmacy (Pharm.D.)

Roll No.

Subject: Anatomy/ Anatomy & Histology

TIME ALLOWED: 3 hrs.

PAPER: 5(Old & New Course)

MAX. MARKS: 50

NOTE: Attempt any FIVE questions. All questions carry equal marks.

- Q.1 (a) Describe Cuboidal epithelium. Its histological diagram. Localization of Cuboidal epithelium in body. 05
(b) Write a note on organelles of Cell. 05
- Q.2 (a) Draw and label internal Female Reproductive Organs 05
(b) Write a note on ligaments of Ovary 05
- Q.3 Draw and label anatomy of heart and major vessels of Cardio Vascular System 10
- Q.4 (a) Write a note on Thyroid gland 05
(b) Write a note on Adrenal gland 05
- Q.5 Draw and label Circle Of Willis. 10
- Q.6 (a) Draw and label regions of Abdomen 05
(b) write a note on Biliary system 05
- Q.7 Write a note on Urinary system 10



UNIVERSITY OF THE PUNJAB

First Prof. A/2017

Examination:- Doctor of Pharmacy (Pharm.D.)

Roll No.

Subject: Anatomy/ Anatomy & Histology

PAPER: 5(Old & New Course)

TIME ALLOWED: 3 hrs.

MAX. MARKS: 50

NOTE: Attempt any FIVE questions. All questions carry equal marks.

Q.1 Write a detailed note on cranial nerves. Mentioning sequence, types and origin of cranial nerve. 10

Q.2 (a) Draw and label regions of abdomen 05

(b) Write a note on general and topographical anatomy of pituitary gland. 05

Q.3 (a) Explain anatomy of Biliary canaliculi system 05

(b) Explain types of bones. 05

Q.4 Draw and label diagram of coronary circulation 10

Q.5(a) Enumerate functions of kidney 05

(b) Write a note on sweat glands with diagram 05

Q.6 (a) Enumerate the layers of the skin 05

(b) Name the parts of Male Reproductive System 05

Q.7 (a) Write a note on Mitochondria with diagram 05

(b) Write a note on dermis of skin with diagram 05



UNIVERSITY OF THE PUNJAB

First Prof: 2nd Annual - 2017

Examination:- Doctor of Pharmacy (Pharm.D.)

Roll No.

Subject: Anatomy/ Anatomy & Histology

PAPER: 5(Old & New Course)

TIME ALLOWED: 3 hrs.

MAX. MARKS: 50

NOTE: Attempt any FIVE questions. All questions carry equal marks.

- Q.1 (a) Draw a diagram of coronary blood supply of heart 05
(b) Enumerate the branches of Arch of Aorta 05
- Q.2 Define the following terms 10
Coronal Plane, Sagittal Plane, Medial, Posterior
- Q.3 Draw and label a diagram of cell showing all organelles 10
- Q.4 Enumerate differences between Skeletal, Cardiac, Smooth Muscles with diagram 10
- Q.5(a) Draw and label Circle Of Willis 05
(b) Write a note on general and topographical anatomy of adrenal gland 05
- Q.6 Write a note on structure of human eye 10
- Q.7 Write a detail note on anatomy of renal system 10



UNIVERSITY OF THE PUNJAB

First Prof: Annual – 2018

Examination: Doctor of Pharmacy (Pharm.D.)

15
Roll No.

Subject: Anatomy/ Anatomy & Histology

PAPER: 5 Part – II (Old & New Course)

TIME ALLOWED: 2 Hrs. & 45 min.
MAX. MARKS: 40

Attempt this Paper on Separate Answer Sheet provided.

Attempt any 4 questions. Each question carry equal marks.

Question 2: what are Basic anatomical position, nucleus vs ganglion, and sesamoid bone? (10)

Question 3: a. Explain ligaments of uterus? (7)

b. write functions of ovaries?(3)

Question 4 :a. Explain conducting system of heart in detail?(7)

b. Explain surfaces and borders of heart?(3)

Question5: Write note on

a. Nasal cavity (5)

b. Meninges (5)

Question 6: Write a note on general and topographical anatomy of liver? (10)

Question 7: What are joints? Write a note on classification of joints? (10)



UNIVERSITY OF THE PUNJAB

First Prof: Annual – 2018

Examination: Doctor of Pharmacy (Pharm.D.)

Subject: Anatomy/ Anatomy & Histology

PAPER: 5 Part – I (Compulsory) (Old & New Course)

TIME ALLOWED: 15 min.

MAX. MARKS: 10

Roll No.

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Each MCQ carries 1 Mark. This Paper will be collected back after expiry of time limit mentioned above.

QUESTION.1: ENCIRCLE THE CORRECT ANSWER.

- | | |
|---|--|
| <p>1. Lateral ventricles of the brain are located in</p> <ul style="list-style-type: none">a) Cerebral hemisphereb) Thalamusc) Midbraind) Hind brain <p>2. One of the following is true about Fibroblasts</p> <ul style="list-style-type: none">a) Are responsible for storage of fat.b) Lines blood vessels and capillaries.c) Secrete collagenous and elastic fibers,d) Cubical large cells. <p>3. The unit of spinal cord is</p> <ul style="list-style-type: none">a) Segmentb) Vertebrac) Fibrocartilaged) None <p>4. Anterior (sternocostal) surface of heart is formed by</p> <ul style="list-style-type: none">a) Right atrium and right ventricleb) Left atrium and left ventriclec) Chiefly by left ventricled) All of the above <p>5. What type of tissue is found on the surface of the ovaries?</p> <ul style="list-style-type: none">a) stratified epitheliumb) simple cuboidalc) simple columnard) simple squamous | <p>6. Which of the following is not a bone of the viscerocranium?</p> <ul style="list-style-type: none">a) Maxilla.b) Sphenoidc) Nasald) Vomere) All of the above <p>7. The rim of the orbit is made up of the frontal, maxillary and zygomatic bones</p> <ul style="list-style-type: none">a) TRUEb) FALSE <p>8. Neuroglial cells help neurons in each of these ways, with the exception of _____.</p> <ul style="list-style-type: none">a) supporting and binding nervous tissueb) carrying on phagocytosisc) playing a role in cell-to-cell communicationsd) transmitting nervous impulses <p>9. Structures in portal triad are ____.</p> <ul style="list-style-type: none">a) Bile ductb) Hepatic arteryc) Hepatic portal veind) All of the above <p>10. The most common site of fertilization is</p> <ul style="list-style-type: none">a) Ampullab) Isthmusc) Uterusd) infundibulum |
|---|--|



UNIVERSITY OF THE PUNJAB

First Prof: 2nd Annual – 2018

Examination: Doctor of Pharmacy (Pharm.D.)

Roll No.

Subject: Anatomy/ Anatomy & Histology
PAPER: 5 Part – II (Old & New Course)

MAX. TIME: 2 Hrs. 45 Min.
MAX. MARKS: 40

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

NOTE: ATTEMPT ANY FOUR QUESTIONS. EACH QUESTION CARRIES EQUAL MARKS.

Question 2: what is midsagittal plane, hilum of lungs and choroid plexus? (10)

Question 3: a. Explain ligaments of liver? (6)

B. Enlist retroperitoneal structures? 4)

Question 4: Draw and label general and topographical anatomy of lungs? (10)

Question 5: Write note on

a. Neuroglia (5)

b. Cell junctions (5)

Question 6: Explain general and topographical anatomy of pancreas? (10)

Question 7: a. What is cartilage? Give its types? (5)

b. Explain blood supply and innervations to human eye? (5)



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First Prof: 2nd Annual – 2018

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Roll No. in Fig.

Roll No. in Words.

Subject: Anatomy/ Anatomy & Histology

MAX. TIME: 15 Min.

PAPER: 5 Part – I (Compulsory) (Old & New Course)

MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed.

(10x1=10)

<p>1. A view of the heart showing the interior of all four chambers would be a _____ section.</p> <p>A. transverse B. coronal C. cross D. parasagittal</p> <p>2. Connective tissue fibers that have great tensile strength and can be found in ligaments and tendons are _____.</p> <p>A. elastic fibers B. collagenous fibers C. reticular fibers D. yellow fibers</p> <p>3. Cardiac apex is _____ from the median plane.</p> <p>A. 9cm B. 1-2cm C. 5cm D. 9.5cm</p> <p>4. Implantation of embryo occurs in _____.</p> <p>A. Uterus B. Fallopian tube C. round ligament D. ovaries</p> <p>5. Intumentary system also known as _____.</p> <p>A. skin B. dermatology C. both a and b D. none</p>	<p>6. In which of following bone would you find the external auditory meatus?</p> <p>A. Mastoid bone B. Occipital bone C. Temporal bone D. None of the above</p> <p>7. The alveolar processes form the tooth sockets</p> <p>A. TRUE B. FALSE</p> <p>8. The phagocytic cells in the CNS are the _____.</p> <p>A. Astrocytes B. oligodendrocytes C. microglia D. ependymal</p> <p>9. Duct arise from gallbladder that joins common hepatic duct is _____.</p> <p>A. Cystic duct B. Hepatic duct C. Common bile duct D. None</p> <p>10. The spinal cord in adults ends at the level of _____.</p> <p>A. 1st and 2nd lumbar vertebrae B. 2nd and 3rd lumbar vertebrae C. 1st and 2nd thoracic vertebrae D. 5th and 6th thoracic vertebrae</p>
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UNIVERSITY OF THE PUNJAB

Doctor of Pharmacy (Pharm.D.) First Prof: Annual – 2019

Subject: Anatomy/ Anatomy & Histology

Paper: 5 Part – I (Compulsory) (New Course)

Time: 15 Min. Marks: 10

Roll No. in Fig.

Roll No. in Words.

Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the correct option.

(20x1=20)

1. The plane that divides the body into equal right and left halves is?

- a) Transverse
- b) Sagittal
- c) Para-median
- d) Coronal

2. The junction of Sclera and Cornea is known as?

- a) Lamina cribrosa
- b) Limbus
- c) Fovea centralis
- d) Blind spot

3. The epithelium present in ureter is:

- a) Simple columnar epithelium
- b) Simple cuboidal epithelium
- c) Transitional epithelium
- d) Pseudostratified columnar epithelium

4. The muscles present in the ventricles of heart are?

- a) Pectinate muscles
- b) Skeletal muscles
- c) Smooth muscles
- d) Papillary muscles

5. Common bile duct opens into which one of the following structures?

- a) 1st part of duodenum
- b) 2nd part of duodenum
- c) Ileum
- d) Ascending colon

6. The hormone produced by anterior pituitary is:

- a) Thyroid stimulating hormone
- b) Oxytocin
- c) Vasopressin
- d) Tri-iodothyronine

7. The testis contains which one of the following structures?

- a) Ejaculatory ducts
- b) Seminiferous tubules
- c) Vas deferens
- d) Seminal ducts

8. The structure connecting the 3rd ventricle with 4th ventricle of brain is?

- a) Cerebral aqueduct
- b) Foramen of Luschka
- c) Foramen of Magendie
- d) Foramen of Monro

9. The top most layer of skin is called:

- a) Stratum spinosum
- b) Stratum granulosum
- c) Stratum corneum
- d) Stratum basalis

10. Brainstem consists of which of the following?

- a) Cerebellum, Pons & Medulla
- b) Spinal cord & Medulla
- c) Midbrain, Pons & Medulla
- d) Midbrain, Cerebellum & Pons



UNIVERSITY OF THE PUNJAB

Doctor of Pharmacy (Pharm.D.) First Prof: Annual – 2019

Roll No.

Subject: Anatomy/ Anatomy & Histology

Paper: 5 Part – II (New Course)

Time: 2 Hrs. 45 Min. Marks: 40

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Note: Attempt any *FOUR* questions. Each question carries equal marks.

- | | | |
|----------|--|-----------|
| Q. No. 2 | Classify and describe the different types of muscles with labelled diagrams. | (10) |
| Q. No. 3 | a) Discuss in detail the blood supply of heart. | (6) |
| | b) Write a note on the pericardium of heart. | (4) |
| Q. No. 4 | a) Describe the structure, important relations and blood supply of Pancreas. | (3, 2, 2) |
| | b) Write a short note on parts and internal features of stomach. | (3) |
| Q. No. 5 | a) Write a note on peritoneum. Give its layers, function and ligaments. | (5) |
| | b) What is portal circulation? Write a note on hepatic portal vein. | (1, 4) |
| Q. No. 6 | a) Describe the uterus in detail. Give its location, parts and ligaments. | (7) |
| | b) Write a note on pouch of Douglas. Give its clinical importance. | (3) |
| Q. No. 7 | a) Describe the lobes of cerebrum. Name the main areas present in each lobe. | (4, 2) |
| | b) Enumerate the basal ganglia. Give their location. | (4) |



UNIVERSITY OF THE PUNJAB

Doctor of Pharmacy (Pharm.D.) 1st Prof: Annual – 2021

Subject: Anatomy/ Anatomy & Histology (New Course)

Paper: 5 Part – II

Roll No.

Time: 2 Hrs. 45 Min. Marks: 40

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Note: Attempt any *FOUR* questions. Each question carries equal marks.

Question 2: Describe general and topographical anatomy of liver? (10)

Question 3: Explain types of bones by mentioning corresponding features' functions and examples? (10)

Question 4: a. Draw and label aorta and its major branches? (5)

b. Describe muscles of eye? (5)

Question 5: a. Explain structural types of capillaries? (5)

b. Enlist membranous and non-membranous organelles of cell and explain with the help of diagram? (5)

Question 6: Describe types of lining epithelium and their location in different organs of body? (10)

Question 7: Write note on

a. Meninges (5)

b. Peritoneum (5)



UNIVERSITY OF THE PUNJAB

Doctor of Pharmacy (Pharm.D.) 1st Prof: Annual – 2021

Subject: Anatomy/ Anatomy & Histology (New Course)

Paper: 5 Part – I (Compulsory)

Time: 15 Min. Marks: 10

Roll No. in Fig.

Roll No. in Words.

Attempt this Paper on this Question Sheet only.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

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Signature of Supdt.:

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Which cranial nerve nucleus is located at the level of superior colliculus?

- A. Oculomotor
- B. Trochlear
- C. Vagus
- D. Trigeminal

2. Leptomeninges of brain is formed by the joining of

- A. Pia mater and dura mater
- B. Pia mater and arachnoid layer
- C. Grey matter and white matter
- D. Dura mater and arachnoid layer

3. Which collagen are present in tendon?

- A. Type I
- B. Type II
- C. Type III
- D. Type IV

4. Which of the following ligaments anchors the ovary to the pelvic wall?

- A. Round
- B. Ovarian
- C. Suspensory
- D. Transverse cervical

5. The _____ is a double layer of peritoneum extending from the liver to the lesser curvature of the stomach.

- A. Greater omentum
- B. Lesser omentum
- C. Mesentery
- D. None

6. Which is anatomically classified as largest prostate lobe?

- a) Anterior
- b) Median
- c) Posterior
- d) Lateral

7. Name the muscle contract relatively slowly and in controlled manner?

- a) Skeletal
- b) Cardiac
- c) Smooth
- d) Both b and c

8. Thyroid is invested in which fascia?

- a) Superficial fascia
- b) Prevertebral fascia
- c) Investing layer of deep cervical fascia
- d) Pretracheal fascia

9. Right coronary artery

- a) Arises from anterior aortic sinus
- b) Supplies both ventricles
- c) Enters the right heart border after passing through sulcus on posterior surface
- d) Supplies SA node

10. The _____ contains the cells that are undergoing mitosis.

- a) Stratum corneum
- b) Stratum lucidum
- c) Stratum basale
- d) Stratum granulosum