

I/IV B. PHARMACY (Regular) EXAMINATIONS, DECEMBER - 2022**Second Semester****HUMAN ANATOMY AND PHYSIOLOGY II - THEORY**Time : **Three Hours**Maximum : **75 Marks****SECTION - A****Answer any FIVE Questions.****5x10 = 50 M**

1. a) Explain Reticulo endothelial system.
b) Write a short note on Thrombocytopenia and Iron deficiency anaemia.
2. Explain the anatomy and physiology of Heart with a neat labelled diagram. Add a note on importance of left ventricle in pumping blood.
3. a) Describe the anatomical features and physiological functions of small intestine.
b) Mention various digestive enzymes and their role in digestion.
4. a) Discuss the physiology of urine formation.
b) Write a brief note on Micturition reflex.
5. Name different parts of Male reproductive system and outline their anatomy and physiology.
6. a) Describe different stages of pregnancy.
b) Write a brief note on parturition.
7. a) Explain the process of Regulation of respiration.
b) Discuss Resuscitation methods.

SECTION - B**Answer any FIVE Questions.****5x5 = 25 M**

8. Name the organs of Lymphatic system and enlist their functions.
9. Elaborate the process of formation of Haemoglobin and write the significance of Rh factor.
10. Define Heart rate and Pulse rate. Add a note on Cardiac arrhythmias.
11. Discuss the anatomy and physiology of Liver.
12. Describe the process of transport of respiratory gases.
13. Explain different phases of Oogenesis.
14. Elaborate the process of protein synthesis from mRNA.



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Total No. of Questions : 14]

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I/IV B. PHARMACY DEGREE EXAMINATIONS, JUNE / JULY - 2022
Second Semester

HUMAN ANATOMY AND PHYSIOLOGY II - THEORY

Time : **Three Hours**

Maximum : **75 Marks**

SECTION - A

Answer any FIVE Questions.

5x5 = 25 M

1. Write in detail about :
 - a) Neuro humoral transmission with examples.
 - b) Meninges of brain with diagram.
2. Explain the Anatomy of Respiratory system with neat labelled diagram. Add a note on mechanism of Respiration.
3. Explain the anatomy of Female reproductive system with diagram.
4. Define BMR & write about various factors affecting BMR & its clinical significance.
5. Enlist the organs of digestive system with a neat diagram and discuss the anatomy & functions of Small intestine.
6. Explain the anatomy of Respiratory System with neat labelled diagram. Add a note on mechanism of respiration.
7. Discuss the circulation and functions of lymphatic system.

SECTION - B

Answer any FIVE Questions.

5x10 = 50 M

8. Write short notes on menstrual cycle.
9. Explain about Resuscitation Methods. *O₂, Iron lung*
10. Write the steps involved in translation.
11. Write short notes on nephron with neat labelled diagram.
12. Enlist hormones secreted by hypothalamus & discuss their functions.
13. Explain about Reflex arc with diagram.
14. Write in detail about spermatogenesis and male sex hormones.



**I/IV B. PHARMACY (REGULAR) DEGREE EXAMINATIONS,
JANUARY - 2022
Second Semester**

HUMAN ANATOMY AND PHYSIOLOGY II - THEORY

Time : Three Hours

Maximum : 75 Marks

SECTION - A

Answer any FIVE Questions.

5x5 = 25 M

1. Explain in detail about electrophysiology in the Nerve.
2. Explain the functions of Smooth muscle across the walls of alimentary canal. *cat + ca muscles*
+ plexuses → *contraction*
3. Describe the regulation of acid production through parasympathetic nervous system.
4. Explain the formation & role of ATP. *phospho creatin, gl.*
5. Explain the anatomy of larynx and mechanism of voice production. ✓
6. Write a short notes on techniques of Artificial respiration.
7. Draw a neat labelled diagram of Internal structure of Kidney and describe the anatomy of it.

SECTION - B

Answer any FIVE Questions.

5x10 = 50 M

8. Describe the anatomy of female reproductive system with diagram.
9. Write short notes on protein synthesis.
10. Define the phases of digestion.
11. Explain the role of RAS in regulation of Blood Pressure.
12. Discuss the role of Pepsin in Protein digestion.
13. Explain about BMR.
14. Write short notes on types of Neuroglia.



I/IV B.PHARMACY (Regular) DEGREE EXAMINATIONS, OCTOBER-2020

Second Semester

B.Pharmacy

HUMAN ANATOMY AND PHYSIOLOGY-II-Theory

Time: Three Hours

Maximum marks:75

SECTION-A

Answer any FIVE Questions.

5X10=50M

1. Discuss the gross anatomy & functions of spinal cord.
2. Describe the formation and role of ATP
3. Classify hormones & write about their mechanism of action.
4. Give the classification of
 - a) Neuroglia
 - b) Receptors
5. Discuss in brief about protein synthesis in eukaryotes.
6. Describe the Role of RAS in kidney with a flow chart.
7. Enumerate the anatomy & functions of Male reproductive system with a diagram.

SECTION-B

Answer any FIVE Questions.

5X5=25M

8. Write in detail about structure & functions of
 - (a) Pineal gland
 - (b) Pancreas.
9. Explain the gross anatomy of stomach & physiology of gastric acid secretion.
10. a) Explain the role of kidneys in Acid base balance. ✓
b) Write in detail about regulation of respiration.
11. a) Explain about oogenesis & spermatogenesis.
b) Explain about physiology of urine formation.

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12. a) Explain the structure & functions of brain.
b) Write in detail about Mechanism of hormone action of pituitary gland.
13. a) Explain about Fertilisation and hormonal regulation of parturition. *oxytocin*
b) Write in detail about genetic pattern of inheritance. *Receptor*
14. Discuss the Neurohumoral transmission with a neat diagram & list out various Neuro transmitters.



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I/IV B.PHARMACY (Supply) DEGREE EXAMINATIONS, DEC-2019/JAN-2020

Second Semester

B.PHARMACY

HUMAN ANATOMY AND PHYSIOLOGY-II-Theory

Time: Three Hours

Maximum marks:75

SECTION-A

Answer any FIVE Questions

5X10=50M

1. With the help of a neat diagram, explain the Anatomy and functions of brain.
2. Write about rôles of
 - a) Role of RAS in kidney
 - b) Formation of ATP
3. Writ about the different pathways that aid for acid production in stomach.
4. Describe the Anatomy and physiology of small Intestine.
5. Write in detail about
 - a) Physiology of Menstruation
 - b) Functions of ATP
6. Describe the structure and functions of Female reproductive system with a neat labelled diagram.
7. Elaborate the process of protein synthesis with respect to genetics.

SECTION-B

Answer any FIVE Questions

5X5=25M

8. Describe the structure and functions of stomach.
9. Describe the process of mechanism of Respiration.
10. Write notes on Chromosomes and Genetic pattern of Inheritance.
11. Discuss the process of Urine formation. *outer layer - Pellicle*



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Sex 1

12. Write the functions of male reproductive system. Add a note on spermatogenesis.
13. Describe the structure and functions of pituitary gland.
14. Describe the process of mechanism of Micturition.



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I/IV B.PHARMACY (Regular & Supply) DEGREE EXAMINATIONS, AUGUST-2019

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Second Semester

B.Pharmacy

HUMAN ANATOMY AND PHYSIOLOGY-II-Theory

Time: Three Hours

Maximum marks:75

SECTION-A

Answer any FIVE Questions.

5X10=50M

1. Explain the physiology of Urine formation with a neat labelled diagram.
2. Write about
 - a) Regulation of Respiration
 - b) Role of Kidneys in acid base balance.
3. Classify hormones secreted from thyroid gland along with their functions and explain how blood levels of Thyroid hormones are regulated.
4. Write a note on
 - a) Formation and role of creatinine phosphate
 - b) Spermatogenesis
5. Explain the physiological role of hormones from anterior pituitary gland.
6. Draw a neat labelled diagram of TS of spinal cord and explain the functions of its nerve tracts.
7. Describe the structure and functions of principal salivary Glands.

SECTION-B

Answer any FIVE Questions.

5X5=25M

8. Write short note on Fertilization.
9. Describe the structure and functions of large Intestine.
10. Discuss the Genetic Alleles of Inheritance.

P.T.O

11. Describe the functions of ATP.
12. Write the structure and functions of Thymus gland.
13. Briefly discuss the stages of parturition.
14. Draw a neat labelled diagram of Brain. Add a note on Reflex arc.



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I/IV B.PHARMACY (Regular) DEGREE EXAMINATIONS, SEP-2018

Second Semester

B.PHARMACY

HUMAN ANATOMY AND PHYSIOLOGY-II-Theory

(Effective from the Admitted batch 2017-18)

Time: Three Hours

Maximum marks:75

SECTION-A

Answer any FIVE Questions

5X10=50M

1. Describe the composition and functions gastric juice. Add a note on the functions of gastrin?
2. Describe the anatomy of the pituitary gland. Discuss the function of its hormones?
3. Describe the nuclei and functions of the thalamus?
4. Name the respiratory centres. Discuss the nervous regulation of respiration?
5. Draw a Spirogram. Define various volumes and capacities. How will measure vital capacity?
6. Write the stages of spermatogenesis. How is the secretion of testosterone regulated?
7. With the help of a labelled diagram describe menstrual cycle?

SECTION-B

Answer any FIVE Questions

5X5=25M

8. Draw and label a myelinated neuron. Add a note on salutatory conduction?
9. Explain the formation of ATP?
10. Write a note on genetic pattern of inheritance?
11. Explain the renal regulation of blood pressure?
12. Describe the structure and functions of stomach?
13. List the types of resuscitation methods. Explain any one method?
14. Write a note on disorders of the thyroid gland?

SECTION-A

Answer any FIVE Questions

5X10=50M

1. With the help of a neat diagram, explain the Anatomy and functions of brain.
2. Write about roles of
 - a) Role of RAS in kidney
 - b) Formation of ATP
3. Writ about the different pathways that aid for acid production in stomach.
4. Describe the Anatomy and physiology of small Intestine.
5. Write in detail about
 - a) Physiology of Menstruation
 - b) Functions of ATP
6. Describe the structure and functions of Female reproductive system with a neat labelled diagram.
7. Elaborate the process of protein synthesis with respect to genetics.

SECTION-B

Answer any FIVE Questions

5X5=25M

8. Describe the structure and functions of stomach.
9. Describe the process of mechanism of Respiration.
10. Write notes on Chromosomes and Genetic pattern of Inheritance.
11. Discuss the process of Urine formation.

12. Write the functions of male reproductive system. Add a note on spermatogenesis.
13. Describe the structure and functions of pituitary gland.
14. Describe the process of mechanism of Micturition.

