

Roll Number ----- (Total Number of Questions 13) (Total number of Printed Pages 01)

Programme	B. Pharmacy
Semester	2 nd
Subject	Human Anatomy and Physiology-II
Subject Code	BP201T
Paper ID	74967
Time	3Hours
Maximum Marks	75

Instructions to Candidates: No supplementary/continuation sheet will be issued to the candidates. Answer the questions precisely.

*Section A consists of Ten parts of 2 marks each (very short answer); Attempt **ALL**.

Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any **TWO.

*** Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

Section A

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Define the term BMR.
ii.	Write the components of the Reflex arc?
iii.	What is the function of neurotransmitters?
iv.	What are functions of pancreas?
v.	Define Glomerular Filtration Rate (GFR).
vi.	Mention any two functions of cerebellum.
vii.	Enlist two hormones released from Posterior pituitary gland.
viii.	Name the cell that released gastric juice.
ix.	Define the term Parturition.
x.	What are the functions of meninges?

Section B

(2 X 10 = 20)

2.	Discuss various parts of the respiratory system and add notes on the mechanism of respiration.
3.	Enlist various parts of the digestive system. Discuss the anatomy and physiology of the stomach.
4.	Draw a neat labeled diagram of kidney and Nephron and write their functions.

Section C

(7 X 5 = 35)

5.	Write a short note on the physiology of urine formation.
6.	Write a short note on Renin-Angiotensin-Aldosterone system?
7.	Draw the cross structure of human brain and label its parts.
8.	Enlist the hormones of the pituitary gland. Mention the functions of FSH and LH.
9.	Write the physiology of the menstruation cycle?
10.	Discuss in detail about structure of liver and role of bile juice in digestion.
11.	Discuss synthesis, secretion and regulation of acid secretion in stomach.
12.	Define Genetics. Add a short note on chromosomes.
13.	Write a short on Lung Volumes and capacities transport of gases.

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20/6/2022

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Section A

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Define action potential.
ii.	Describe the role of ATP in human body.
iii.	What is Vital capacity and Tidal volume?
iv.	Mention physiological functions of Parathormone.
v.	Define Micturition.
vi.	Write functions of oxytocin hormone.
vii.	What is Cushing's syndrome?
viii.	Explain spermatogenesis.
ix.	What are autosomal dominant disorders?
x.	What is the physiological significance of creatine phosphate?

Section B

(2 X 10 = 20)

2.	Write a note on Menstruation.
3.	Mention hormones of pituitary gland and write their functions.
4.	Draw a well labelled diagram of human kidneys and write a note on physiology of urine formation.

Section C

(7 X 5 = 35)

5.	Describe the anatomy and functions of salivary glands.
6.	Explain mechanism of respiration.
7.	Write a short note on Oogenesis.
8.	Explain the physiological functions of thyroid hormones.
9.	Briefly explain the protein synthesis.
10.	Write a short note on anatomy and physiology of stomach.
11.	Explain the composition and functions of cerebrospinal fluid.
12.	Draw a neat and well labelled diagram of human brain.
13.	Describe the structure and functions of liver.

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Section- A (10X2=20)

1	Give very short answers to the followings
i.	Write down about the division of the nervous system.
ii.	Define the term "chromosome".
iii.	Name the diseases associated with Growth hormone.
iv.	Define total lung capacity.
v.	Mention the different types of teeth.
vi.	Define ECG.
vii.	Write the name of diseases associated with urine tract
viii.	Define nephrons.
ix.	Define the term action potential
x.	Name the diseases associated with GIT.

Section- B (2X10=20)

2.	Explain the process of spermatogenesis and oogenesis.
3.	Draw a well labelled diagram Respiratory system and explain its various parts.
4.	Explain the physiology of hormones released from the anterior lobe of pituitary.

Section- C (7X5=35)

5.	Write down the various parts of digestive system.
6.	Explain the physiology of urine formation.
7.	Explain the Structure and functions of brain.
8.	Discus the role and formation mechanism of ATP.
9.	Write a note on the genetic pattern of inheritance.
10.	Write a note on physiology of menstruation cycle
11.	Discus the mechanism of protein synthesis.
12.	Give the classification and property of nerve impulse.
13.	Explain artificial respiration and resuscitation method.

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12 JUN 2023

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Section- A

(10 X 2 = 20)

1.	Give very short answers to the followings:
i.	What are salivary glands and write its function?
ii.	What is the mumps disease?
iii.	What is Azoospermia?
iv.	What causes low Tidal Volume?
v.	What do you mean by Diabetes Mellitus?
vi.	Describe the meninges and ventricles in the Brain?
vii.	What is the difference between asphyxia and anoxia?
viii.	What hormone causes secondary characteristics of male and female?
ix.	What do the islets of Langerhans secrete?
x.	Define Glomerular Filtration Rate (GFR).

Section- B

(2 X 10 = 20)

2.	What are the Thyroid Hormones write their functions? Discuss some common disorders associated with Thyroid dysfunction?
3.	Describe the Urinary system with a neat and labeled diagram. Briefly discuss about the process of Urine formation.
4.	What is the physiology of the Female Reproductive System? Explain in briefly physiology of menstruation.

Section- C

(7 X 5 = 35)

5.	What is digestive system explain with labelled diagram and write the composition of gastric juice?
6.	What is the epididymis where is it located and what its functions?
7.	What is BMR and how it is determined? Describe in brief various factors affecting BMR.
8.	What are the types of dentition? Write the dental formulas for humans?
9.	What is the difference between humoral and hormonal?
10.	What is the structure of the Spinal Cord and its functions?
11.	What is placenta and what is its function?
12.	What is external Respiration? Explain the regulation of respiration.
13.	Write the functions of Hormones of Neurohypophysis.

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(Evening)

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Section A

(10 X 2 = 20)

1.	Give very short answers to the followings:
i.	Define glomerular filtration rate.
ii.	What are functions of pineal gland?
iii.	Name the hormone responsible for glucose metabolism.
iv.	Differentiate neurotransmission and neurotransmitter. List the tree name of neurotransmitters.
v.	Write the functions of limbic system.
vi.	What do you mean of ectopic pregnancy?
vii.	Name hormones that are secreted from the adrenal cortex.
viii.	Write the function of thymosin.
ix.	Write three functions of urinary system.
x.	Define tidal volume.

Section B

(2 X 10 = 20)

2.	Draw a neat labeled diagram of nephron and add note on the physiology urine formation.
3.	Enlist endocrine glands. Write in detail about the pituitary gland and its hormones.
4.	Enlist various parts of the digestive system. Add a detailed note on the physiology of digestion.

Section C

(7 X 5 = 35)

5.	Write short note on protein synthesis.
6.	Discuss the various components of the reflex arc and add a note on the reflex arc pathway.
7.	Describe the physiology of menstruation.
8.	Explain the physiology acid secretion from stomach.
9.	Write a detailed note on neurochemical transmission.
10.	Discuss the RAAS pathway with its functions.
11.	Describe the anatomy of cerebrum.
12.	Describe the physiology of respiration.
13.	Write short note on oxidative phosphorylation.

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Section- A (10 X 2 = 20)

1.	Give a very short answers to the followings:
i.	Define BMR.
ii.	What are meninges?
iii.	Mention the functions served by the cerebellum in human brain.
iv.	What is reflex activity?
v.	What are spirometry and plethysmography?
vi.	Write functions of respiratory system.
vii.	What is Addison's disease?
viii.	Explain parturition.
ix.	What are autosomal dominant disorders?
x.	Explain the functions of pineal gland.

Section- B (2 X 10 = 20)

2.	Explain the regulation of acid production through parasympathetic nervous system.
3.	Explain the biosynthesis and functions of thyroid hormones.
4.	Draw a well labelled diagram of human urinary system. Describe the renin-angiotensin system (RAS) in kidneys.

Section- C (7 X 5 = 35)

5.	Explain the physiological functions of adrenal hormones.
6.	Explain mechanism of respiration.
7.	Write a short note on spermatogenesis.
8.	Write a note on protein synthesis.
9.	Briefly explain the phases of gastric acid secretion.
10.	Write a short note on anatomy and physiology of ovary.
11.	Explain digestion and absorption of carbohydrates, proteins and fats.
12.	Explain different function of cerebrum.
13.	Describe the structure and functions of pancreas.

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Section- A (10 X 2 = 20)

1.	Give very short answers to the followings:
i.	What are spinal nerves?
ii.	Define the term "chromosome".
iii.	What is hypo and hyper secretion of GH?
iv.	Define total lung capacity.
v.	What is the dental formula of child?
vi.	Write the two function of CSF.
vii.	Write the name of diseases associated with urinary tract.
viii.	Enlist various parts of nephrons.
ix.	What is the action potential of a neuron?
x.	What is peptic ulcer?

Section- B (2 X 10 = 20)

2.	Discuss the anatomy and physiology of female reproductive system. Add a short note on oogenesis.
3.	Draw a well labelled diagram of respiratory system and explain its various parts.
4.	Explain the physiology of hormones released from the anterior lobe of pituitary.

Section- C (7 X 5 = 35)

5.	Write down the various parts of digestive system.
6.	Explain the physiology of urine formation.
7.	Explain the structure and functions of brain.
8.	Discus the role and formation mechanism of ATP.
9.	Write a note on the genetic pattern of inheritance.
10.	Write a note on physiology of menstruation cycle.
11.	Discus the mechanism of protein synthesis.
12.	Give the classification and property of nerve impulse.
13.	Explain artificial respiration and resuscitation method.

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 (Morning)

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Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	Define resuscitation and its methods.
ii.	Give the role of RAAS (Renin-Angiotensin-Aldosterone System) in the kidney.
iii.	How do pituitary hormones influence other endocrine glands?
iv.	Write the formation and role of ATP in energetics.
v.	Who is the father of genetics? Define heredity.
vi.	What is the function of insulin?
vii.	Differentiate between action potential and nerve impulse.
viii.	Write about GERD (Gastroesophageal Reflux Disease).
ix.	What is the reticuloendothelial system?
x.	Give the composition of CSF (Cerebrospinal Fluid).

Section- B (2X10=20)

2.	Describe the anatomy and physiology of the male reproductive system in detail.
3.	Explain the structure of the pituitary gland and the functions of the hormones it releases.
4.	Classify the central nervous system by structure and function.

Section- C (7X5=35)

5.	What is the mechanism of respiration? Include a well-labelled diagram.
6.	Describe the physiology of the menstruation cycle.
7.	Classify Hashimoto's thyroiditis, Graves' disease, and goiter in thyroid disorders.
8.	Compare spermatogenesis and oogenesis.
9.	What is the physiology of urine formation? Include a well-labelled nephron diagram.
10.	Write a short note on protein synthesis.
11.	Describe the gross anatomy and physiology of the stomach.
12.	What are the functions and characteristics of cranial nerves?
13.	Differentiate between the sympathetic and parasympathetic nervous systems.

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Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	What is DNA and chromosomes?
ii.	Define vital capacity and total lung capacity.
iii.	What is the role of bile salts in fat absorption?
iv.	Write the name of hormones released by adrenal gland.
v.	Differentiate between spermatogenesis and oogenesis.
vi.	Define meninges and its types.
vii.	Define BMR and factors that affect BMR.
viii.	Write any two resuscitation methods.
ix.	Define the term transcription and translation.
x.	Write about negative feedback mechanism with example.

Section- B (2X10=20)

2.	Explain briefly the anatomy of pituitary gland and discuss the hormones secreted and their functions.
3.	Discuss the various parts of female reproductive system with a well labelled diagram and mention their respective functions.
4.	Write in details of human GIT with a well labelled diagram. Explain the significance of juices secreted by various parts of GIT.

Section- C (7X5=35)

5.	Write in detail about lung volumes and capacities transport of respiratory gases.
6.	Define Micturition? Write down physiology of urine formation.
7.	Write note on- (a) Sex determination in humans. (b) Sex differentiation.
8.	Name various salivary glands. Explain their functions.
9.	Define Action potential. Discuss the mechanism of electrophysiology of nerve impulse conduction.
10.	Describe the structure and function of thyroid gland.
11.	Explain the physiology of ovulation and menstruation and its significance.
12.	Define ATP. Explain formation and role of ATP in human body.
13.	Discuss the ventricles of brain and cerebrospinal fluid in detail.

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