

# ANATOMY AND PHYSIOLOGY

## CTEVT PAST QUESTIONS

### HEALTH SCIENCE DIPLOMA LEVEL COURSES

#### INTRODUCTION OF ANATOMY AND PHYSIOLOGY

##### Very Short Questions (2 Marks)

1. Define anatomy and physiology. [2080,2073]
2. Define Homeostasis. [2080,2077,2079]
3. Define flexion and extension? [2079,2076]
4. List out different types of tissue. [2079]
5. Define Lithotomy position. [2078]
6. Define tissue. List the different types of tissue. [2078]
7. Define Homeostasis. Give examples. [2078]
8. Define tissue. Write its types [2077]
9. Define anatomical position with examples. [2075]
10. Define anatomical position. [2074,2065]
11. Give the anatomical position of human body. [2072]
12. Define tissue? Write the types of tissues. [2071]
13. What is membrane? List the types of membranes. [2069]
14. Name the covering of heart and lungs. [2069]
15. What is anatomical position? Define flexion. [2067]
16. What do you mean by anatomy and physiology? [2066]
17. Define tissue. What are the types of human tissue? [2064]

##### Long Questions (6Marks)

18. What is homeostasis? Describe negative feedback mechanism. [2076]
19. What is homeostasis? Explain its mechanism with example. [2075]
20. Define homeostasis and mention different homeostatic mechanism of human body. [2061]

#### SKIN

##### Very Short Questions (2 Marks)

1. List the factors that determine the skin colour. [2078]
2. Write the five function of skin. [2071]
3. List various layers of skin and functions of skin. [2068]
4. State any four functions of skin. [2066]

##### Short Questions (4Marks)

5. Describe the structure of different layers of skin along with diagram. [2080]
6. Draw a well labeled diagram of skin and mention any four functions of skin. [2079,2076]
7. Draw a labeled diagram of skin .Write its function. [2077]
8. Draw a well labeled diagram of skin. [2071]
9. Draw a well labeled diagram of skin. What are the functions of skin? [2067]
10. Draw a well labeled diagram of skin. [2065]
11. Draw and label the structure of skin showing its different contents. [2063]
12. Name the layers of skin and list its function. [2061]
13. List the various layers of the skin and describe the function of each layer. [2060]

##### Long Questions (6Marks)

14. Define skin. Write the structure of dermis and epidermis with neat diagram. [2075]
15. Write the function of skin in regulating body temperature? [2073]
16. Draw and label the diagram of vertical section of skin and mention functions of skin. [2070]
17. Draw well labeled diagram of skin showing different layers. [2067]
18. Explain how skin regulates body temperature? [2064, 2063]

## SKELETAL SYSTEM

### Very Short Questions (2 Marks)

1. Name the bone of skull. [2079]
2. Name the bones of lower limbs. [2078,2077,2069]
3. Describe the sesamoid bone. [2076]
4. Define ossification. [2076]
5. Classify the bones according to shape and size with examples. [2071]
6. What is bone? List the types of bones. [2073]
7. List name of bones forming thoracic cage. [2072]
8. Write the names of the bones found in upper limb. [2071]
9. Name the bones of axial skeleton. [2070]
10. Classify bones and mention the function of bone. [2069]
11. What are the different types of bone cells and their functions? [2068]
12. Write the name of bone found in upper limbs. [2065]
13. List type of bone with an example. [2064]
14. Name the bones of upper limb. [2063]

### Short Questions (4 Marks)

15. Describe the chief functions of bone. [2080]
16. What are the types of bone? Name skull bones. [2074]
17. List the names of upper limb bones. [2073]
18. How many types of bones according to shape and size are found in human skeletal system? Mention them with example. [2072]
19. Classify bone with examples. Write down the functions of bone. [2067]
20. State the function of bone. [2066]
21. Draw a well labeled diagram of long bone. [2065]
22. Name the bone cells. Draw & label the gross structure of long bone. [2063]

## SKELETAL JOINTS

### Very Short Questions (2 Marks)

1. Write about three types of joints with examples. [2075]
2. Mention the classification of joints. [2069]
3. Classify joint with examples. [2067]
4. What are the movements occurring at elbow joints. [2063]

### Short Questions (4 Marks)

5. Name the different types of joints with examples. [2079]
6. Classify synovial joints with examples. [2077]
7. What is a joint? Describe different types of synovial joints. [2076]
8. Name the joints found in upper limb. What are the possible movements of wrist joint? [2066]
9. Define joint. Write down the possible movement of shoulder joint. [2065]
10. Mention possible movements of shoulder joint. [2062]
11. Classify joints with examples. [2061]
12. What is synovial joint? List the types of synovial joint with an example of each type. [2060]

### Long Questions (6 Marks)

13. What are the features of synovial joint? List different types of it. Give examples for each types of synovial joint. [2078]
14. Mention the different types of joints with one example for each. [2068]
15. List types of synovial joints with an example. [2064]
16. Describe the different groups of muscles, which take part in movements of hip joint (name the muscle in each movement). [2061]

## MUSCULAR SYSTEM

### Very Short Questions (2 Marks)

1. What is sarcomere? [2076]
2. What is muscle? List the types of muscle with examples. [2073]
3. What are motor unit and neuromuscular junction? [2071,2066]

4. List the name of muscle of tongue. [2070]
5. What are the muscles of mastication? [2069]
6. Differentiate between skeletal and smooth muscle. [2067]
7. Define synapse. What is intercalated disc? [2067]
8. Describe the structure of skeletal muscle. [2064]

#### Short Questions (4 Marks)

9. Define muscle. Differentiate between skeletal and smooth muscle. [2080]
10. Describe the mechanism of skeletal muscle contraction. [2079, 2076, 2067, 2063]
11. Differentiate between the structures and functions of skeletal and cardiac muscle. [2077]
12. Differentiate skeletal muscle and-smooth muscle. [2074, 2065]
13. Describe the function of skeletal muscles with examples. [2073]
14. Write the types of muscles tissue. Draw a well labeled diagram of voluntary muscle. [2071]
15. Write the difference between striated, smooth and cardiac muscle. [2070]
16. Describe the structure of voluntary muscle. [2066]
17. Write down the difference between cardiac and skeletal muscle. [2061]

### NERVOUS SYSTEM

#### Very Short Questions (2 Marks)

1. Write short note on cerebrospinal fluid. [2080]
2. Define neuron. [2079, 2065]
3. Define neurone. Draw well label diagram of neuron. [2078]
4. Draw well label Diagram of neuron. [2077, 2071]
5. Define neuron. List the different part of neuron. [2072]
6. Draw a figure of neuron and label it. [2070]
7. Draw and label the structure of neuron. [2068]
8. Define synapse. [2067]
9. What is neuron? List types of neuron. [2064]
10. Write down the extent of spinal cord. [2063]

#### Short Questions (4 Marks)

11. What are the functions of cerebrospinal fluids? [2079]
12. What is neuroglia? Describe different types of it. [2076]
13. List the names and functions of cranial nerves. [2074, 2073, 2071, 2068]
14. Define neuron and write its functions. [2073]
15. Identify cerebellum and its function. [2072]
16. What is cerebro-spinal fluid (CFS)? Write its functions. [2072, 2069, 2068, 2067]
17. What happens when sympathetic nervous system in stimulated? [2072]
18. Write circulation path of cerebrospinal fluid (CSF). [2070]
19. Classification and summarize the function of nervous system. [2070]
20. Define cerebro-spinal fluid (CSF)? Mention its functions. [2069]
21. What is CSF? Write down its function and pathways. [2068, 2067]
22. Define synapse. Draw it's well labeled diagram and mention its types. [2069]
23. What do you mean by central and peripheral nervous system? Write down the functions of cerebrospinal fluid. [2066]
24. Describe the structure of spinal cord and its main functions. [2064]
25. Define neuron. Draw and label the structure of neuron. [2063]
26. Draw and label the structure of neuron. [2061]

#### Long Questions (6 Marks)

27. Name the cranial nerves with function. [2078, 2077]
28. Write name, types and functions of cranial nerves. [2076]
29. Define CSF. Write about its secretion, composition, pathway of flow and functions. [2075]
30. Define CSF, its formation, circulation, absorption, composition and functions. [2074]
31. Enlist the name of different cranial nerves with their types and functions. [2072]
32. Describe the reflex arc with diagram. [2071, 2064, 2063]

33. Write down the name of different cranial nerves and mention their functions in brief. [2069]
34. Describe reflex arc. What are the differences between sympathetic and parasympathetic nervous system? [2068]
35. Compare effects of sympathetic and parasympathetic nervous system. [2062]
36. Define CSF, its' formation, circulation and function. [2061]
37. What do you mean by reflex behavior? Describe the structure of a neuron with diagram. [2060]

## SOMATIC AND SPECIAL SENSES

### Very Short Questions (2 Marks)

1. Define organ of corti of ear. [2072]
2. What are auditory ossicles? What is their function? [2070]

### Short Questions (4 Marks)

3. Draw a labeled diagram of eyeball. [2079, 2074, 2071]
4. Name the muscle of tongue. Mention the physiology of taste. [2078]
5. Name the parts of eye with a diagram. [2077]
6. Draw a well labeled diagram of human eye ball. [2076]
7. Name the five kinds of sensory receptors and explain the function of each. [2071, 2064]
8. Draw a well labeled diagram of lacrimal sac. [2068]
9. Draw a well labeled diagram of cross section of eye. [2068, 2067]
10. Draw a diagram of lacrimal apparatus. Write down the function of tear. [2066]
11. Draw a well labeled diagram showing visual pathway. [2065]
12. Draw and label the structure of eyeball showing its different layers. [2063]
13. Mention the names of ear ossicles with a well labeled diagram. Write down the functions of air ossicles. [2069]
14. List different sense organs and mention the nerve supply of tongue. [2061]
15. Mention briefly how sound wave stimulates the organ of corti? [2061]

### Long Questions (6 Marks)

16. Name the sensory receptors. Explain the functions of each receptor. [2080]

## ENDOCRINE SYSTEM

### Very Short Questions (2 Marks)

1. Name any four hormones secreted by endocrine gland. [2077]
2. List the hormones secreted by the anterior Pituitary gland. [2075]
3. List the hormones secreted by anterior lobe of pituitary gland. [2073]
4. List the name of hormones secreted by adrenal gland. [2072]
5. Name the hormones secreted by adrenal medulla. [2071,2063]
6. What are hormones that control blood calcium level? [2070]
7. What are the hormones secreted by thyroid gland? Mention the functions of thyroid hormones.[2069]
8. Differentiate between endocrine glands and exocrine glands. [2069]
9. Enlist the names of the endocrine glands of human body. [2068]
10. Write down the difference between hormone and enzyme. [2065]
11. Name the hormones secreted by adrenal gland. [2064]

### Short Questions (4 Marks)

12. Write structure of pituitary gland. List the hormone secreted by anterior pituitary gland. [2080]
13. Name any four hormones secreted by anterior pituitary glands with each function of its. [2079]
14. Name the hormones secreted by the anterior pituitary gland and its function. [2078]
15. Write the function of thyroid- hormones. [2074]
16. What is hormone? How it works? [2073]
17. What do you mean by endocrine gland? List the names of endocrine gland with their location in body. [2070]
18. Name the hormones secreted by hypothalamus, write down the function of thyroid hormones. [2066]
19. Explain why pancreas is known as endocrine as well as exocrine gland. [2065]
20. Discuss how negative feedback mechanisms regulate hormone secretions. [2062]
21. Name the endocrine glands. State the hormones secreted by pituitary gland. [2061]

### Long Questions (6 Marks)

22. Differentiate between enzyme and hormone (any four) [2078]

23. Differentiate between exocrine and endocrine glands with examples of each. Describe negative feedback mechanism of regulation of hormonal secretions. [2067]
24. Name the hormone secreted by pituitary gland. Write down the function of each hormone. [2065]
25. Describe the negative feedback mechanism of regulation of secretion of hormones. [2063]
26. Define hormone. List different endocrine glands and which hormones are associated with the regulation of menstruation. [2061]
27. What is the difference between endocrine and exocrine glands? List the functions of pituitary gland. [2060]

## BLOOD

### Very Short Questions (2 Marks)

1. Write short note on blood typing. [2080]
2. Write any two important functions of WBC. [2078]
3. Write composition of blood. [2077,2079]
4. List the functions of leucocytes. [2070]
5. What is blood grouping? What are the types of blood groups? [2068]
6. What are the products of haematopoiesis and where does it occur? [2067]
7. What is erythropoiesis? Describe in short. [2066]
8. Write down the name of important plasma protein in our body. [2065]
9. Define thrombus and embolus. [2063]

### Short Questions (4 Marks)

10. Define blood. Give the composition of blood. [2080,2061]
11. Write down the components of blood. What do you mean by ABO blood group? [2078]
12. Describe the mechanism of clotting of blood. [2076, 2068,2066]
13. What is connective tissue? Write the composition of blood. [2075]
14. Explain the function of blood. [2074]
15. Define haemostasis. Mention the names of blood clotting factors. [2069]
16. What are the types of blood cells? Mention the functions of platelets. [2069]
17. Define blood grouping system. What are the different types of blood groups? [2069]
18. Define erythropoiesis. What are the sites of production of erythrocyte? (RBC)? [2065]
19. Describe the steps of blood coagulation. [2064]
20. Name some important plasma protein. Write down the functions of WBC. [2063]
21. Mention normal range of blood cell and hemoglobin. [2062]
22. Describe blood grouping and its importance. [2062]
23. What is the blood group and types of blood group? [2061]

### Long Questions (6 Marks)

24. What is blood? Write the composition of blood? [2073]
25. List the components of blood and explain main function of each component. [2060]

## CARDIVASCULAR SYSTEM

### Very Short Questions (2 Marks)

1. What is cardiac cycle? [2080]
2. Name the arteries that supply pure blood to the heart [2078]
3. Define stroke volume. [2074]
4. Describe how blood is supplied to the heart. [2073]
5. What are heart sounds? [2070]
6. What is cardiac cycle? Mention the name of conducting system of heart. [2069]
7. Name the coverings of lungs and heart. [2069]
8. What do you mean by Electrocardiogram? Mention its different wave. [2066]
9. Write down the external features of heart. [2065]

### Short Questions (4 Marks)

10. Draw a neat and clean diagram of interior of heart with labeling. [2080,2064]
11. Draw a neat and clean diagram of external feature of heart. Mention name of valve present in the heart. [2078]
12. Describe the events of cardiac cycle. [2076]

13. Define and classify blood circulation. Explain blood flow through the heart. [2075]
14. What is cardiac cycle? [2073]
15. Draw a well labeled diagram of heart showing internal structure. [2072,2068]
16. What is blood pressure? List different factors that maintain blood pressure. [2071]
17. Draw a well labeled diagram of heart showing the flow of blood through the heart. [2069]
18. Describe portal circulation. [2069]
19. Define cardiac cycle. [2068]
20. Describe cardiac cycle. How is it controlled? [2067]
21. What are the different heart sounds? How they are produced? [2065]
22. Define blood pressure. List different factors that maintain blood pressure. [2064]
23. Define cardiac output. Name two important factors it depends on. What are the different heart sounds and how are they produced. [2063]
24. Write intrinsic capacity of heart conduction. [2062]
25. Describe systemic circulation. [2062]
26. Describe the pathway and process of pulmonary circulation. [2061]
27. Draw a diagram of heart and label it. [2060]

#### Long Questions (6 Marks)

28. Define blood pressure including its normal range. Describe the process involve in regulating blood pressure in human body. [2080]
29. What is circulation system? Write the types of circulation. Explain the conduction system of the heart. [2079]
30. What is blood pressure? Mention its normal range. How does body regulate blood pressure? [2077]
31. Draw a well labeled diagram of a human heart. [2075]
32. What do you mean by blood pressure? What are the factors that maintain blood pressure in human body? [2072]
33. Mention blood supply of heart. What are the layers of heart? Describe circulation. [2071,2068,2066]
34. What is blood pressure? Mention the normal range. How does body regulate the blood pressure? [2067]
35. Define circulation. Describe the type's circulation. [2065]
36. Define heart. Draw and label the external structure of Heart (Anterior and posterior view). [2063]
37. What do you mean by blood pressure? What are the factors that maintain blood pressure in human being? [2062]
38. Correlate different phases of cardiac cycle with the pumping action of heart and mention the factors that help maintaining systemic blood pressure. [2061]

### LYMPHATIC SYSTEM

#### Very Short Questions (2 Marks)

1. Write down the function of lymph node. [2078,2068,2064]
2. Name the different tonsils present in the body. [2063]

#### Short Questions (4 Marks)

3. Describe structure and functions of spleen. [2077]
4. Describe the structure and functions of lymph nodes. [2076, 2074]
5. What is spleen and how it works. [2073]
6. Write the mechanism of lymphatic circulation? [2073]
7. List the chief group of lymph nodes. Write the function of lymphatic system. [2072,2068,2067]
8. Describe the functions of spleen and thymus. [2068]
9. Describe lymphatic circulation. Mention the function of lymph node. [2066]
10. Write short notes on thoracic duct with well labeled diagram. [2065]
11. Deal with structure and functions of lymph nodes. [2062]
12. List the functions of spleen. [2060]

### DIGESTIVE SYSTEM

#### Very Short Questions (2 Marks)

1. List the organs of digestive system. [2080,2074]
2. Define emulsification? [2079,2068]
3. Write dental formula of human. [2078]
4. Mention the name of organs of digestive system. [2075]
5. Mention the function of liver. [2075]

6. Describe the emulsification process. [2073]
7. Draw labeled diagram of stomach. [2072]
8. Give the composition of gastric juice and bile. [2070]
9. Write down the functions of liver. [2067]
10. List the different endocrine cells found in stomach and mention their secretion. [2066]
11. What is emulsification? What are the factors that help in emulsification of fat? [2066]
12. Write down the function of peritoneum. [2065]
13. List the organs associated with digestive system. [2064]
14. Write down the functions of pancreas. [2063]

#### Short Questions (4 Marks)

15. Draw well label diagram of alimentary canal. [2080]
16. List out the organs of digestive system. Mention the functions of pancreatic juice. [2079]
17. State the functions of liver. [2079]
18. Show the pathway of bile with help of diagram. [2079]
19. Name the parts of digestive system in chronological order. Mention functions of liver. [2078]
20. Mention the steps of carbohydrate metabolism. [2078]
21. Write down the mechanism of swallowing or deglutition. [2077,2069]
22. Describe the structure and functions of liver. [2076]
23. Draw a well labeled diagram of stomach and write its functions. [2075]
24. Describe the mechanism of carbohydrate digestion. [2074]
25. Define digestion and describe the process of digestion of carbohydrate. [2073]
26. Define exocrine and endocrine gland with examples and write the functions of liver. [2072]
27. What is peristalsis? Write down the function of pancreas. [2071]
28. What is peristalsis? Draw a well labeled diagram of digestive system. [2069,2067]
29. With the help of figure show that pathway of bite. [2071,2063]
30. Differentiate between small intestine and large intestine. [2070]
31. Draw a well labeled diagram to show the pathway of the phases of gastric juice secretion. [2069]
32. Describe the structure and function of pancreas. [2069]
33. Write down the function of liver. How skin regulate temperature. [2069]
34. What is digestion? Name the organs of alimentary canal. [2066]
35. Write carbohydrate metabolism. [2062]
36. Write down the functions of liver. [2061]
37. Explain the mechanism of carbohydrate digestion in human. [2061, 2060]

#### Long Questions (6 Marks)

38. Write functions of liver. Draw a labeled diagram of liver. [2075,2071]
39. Describe physiology of digestion of food in stomach and small intestine. [2070]
40. Name the parts of digestive system. Describe the pathway and process of pulmonary circulation. [2061]

### RESPIRATORY SYSTEM

#### Very Short Questions (2 Marks)

1. What do you mean by external and tissue respiration? [2070]
2. Write down the functions of larynx. [2067, 2068]
3. Write down the functions of trachea. [2066]
4. Define diaphragm and state its functions. [2063]

#### Short Questions (4 Marks)

5. Explain the mechanism of respiration. [2080,2073,2072]
6. Describe the process of inspiration and expiration. [2078]
7. Draw Respiratory System diagram and label the parts. [2073]
8. Explain how the intercostals muscle and diaphragm help in mechanism of respiration? [2070]
9. Mention the mechanism of respiration. Name the muscles of respiration. [2069]
10. What is tidal volume? Draw a well labeled diagram of respiratory system. [2067]
11. Describe lung volume with diagram. [2066]
12. Describe the role of diaphragm in respiration. [2065]

13. With the help of figure explain internal respiration. [2063]  
 14. Describe the process of cellular respiration. [2060]

### Long Questions (6 Marks)

15. Define respiration. Explain the mechanism of respiration. [2079]  
 16. Explain how Co<sub>2</sub> is excreted from our body. [2077]  
 17. What is respiration? Describe the mechanism of inspiration and expiration. [2076]  
 18. Describe the mechanism of respiration (inspiration and expiration) [2074]  
 19. What are the different volumes and capacities of lungs? [2066]  
 20. Define respiration. Describe the respiratory cycle (mechanism). [2065]  
 21. Draw a neat and clean diagram of lungs and label parts and also describe the respiratory cycle. [2062]  
 22. List the laryngeal cartilage and mention the function of larynx. [2061]  
 23. List the organ of excretion and mention the process of CO<sub>2</sub> excretion from the body. [2061]

## URINARY SYSTEM

### Very Short Questions (2 Marks)

1. What is GFR? [2079, 2076]  
 2. What is nephron? List the different parts of it? [2078, 2067]  
 3. List the function of kidney. [2073]  
 4. Give definition of GFR. [2072]  
 5. Write the composition of urine. [2071]  
 6. What is glomerular filtration rate (GFR)? Name the organs of urinary system? [2069]  
 7. Define GFR (Glomerular filtration rate) [2068]  
 8. What is nephron? [2068]  
 9. List the steps of formation of urine. [2066]  
 10. Write down the composition of urine. [2065]

### Short Questions (4 Marks)

11. Describe the structure and factions of kidney. [2074]  
 12. Draw the diagram of kidney. [2073]  
 13. Write normal value of major constituents of urine. [2070]  
 14. "Kidney is a retroperitoneal organ" what does retroperitoneal mean? Describe Juxtaglomerular apparatus. [2067]  
 15. Describe the structure of nephron. [2066]  
 16. Define a nephron. Describe functions of its different parts. [2064]  
 17. Define GFR. Write down the functions of kidney. [2063]  
 18. State major steps for urine production and explain briefly on micturition. [2062]  
 19. Describe the mechanism of urine formation. [2061]  
 20. Draw a diagram of nephron and label it. [2060]

### Long Questions (6 Marks)

21. Write in detail about the mechanism of urine formation. [2080]  
 22. Define nephron. Explain the process of urine formation. [2079]  
 23. Draw a well labeled diagram of nephron. Describe the process of urine formation. [2078]  
 24. Describe urine formation. [2077]  
 25. What is juxtaglomerular apparatus? Describe mechanism of urine formation. [2076]  
 26. Draw a well labeled diagram of Nephron and explain about the formation of urine through it. [2075]  
 27. Describe the mechanism of urine formation with diagram. [2074, 2073, 2069, 2068, 2065]  
 28. Locate kidney. Describe structure and function of kidney. [2072]  
 29. Describe the steps of urine formation. [2071]  
 30. What is nephron? Draw and label the structure of nephron. Summarize the functions of different parts of nephron. [2070]  
 31. Draw a well labeled diagram of section through kidney and describe the mechanism of urine formation. [2067]

## WATER, ELECTROLYTE AND pH BALANCE

### Very Short Questions (2 Marks)

1. Define acidosis and alkalosis. [2080]  
 2. Define electrolytes with examples. [2074]



3. Describe electrolytes with examples. [2073]
4. Make a chart of intake and output of fluid of normal person. [2072]
5. Mention the different compartments of fluid distribution in our body with respective fluid volume. [2067]

#### Short Questions (4 Marks)

6. What are the different body compartments? [2079]
7. Define body fluids. What are the different body compartments? [2071]
8. Explain the buffer systems in human body. [2067]
9. Describe the fluid distribution in our body. How body regulate fluid balance. [2066]
10. Define body fluids. What are the different body compartments? [2064/63]
11. What do you mean by acid-base balance within human body? [2060]

### MALE REPRODUCTIVE SYSTEM

#### Very Short Questions (2 Marks)

1. Write the organs of male reproductive system. [2076]
2. Describe the secondary sex characteristics in male. [2073]
3. What are components of spermatic cord? [2072]
4. List the different organs in male reproductive system. [2067]

#### Short Questions (4 Marks)

5. Draw and labeled diagram of the organs of male reproductive system. [2080,2061]
6. Mention the name of male reproductive organ in chronological order. List the functions of testes. [2078]
7. Describe the process of spermatogenesis. [2077,2076, 2074, 2064]
8. With the help of a figure show the pathway of spermatozoa from origin to exit. [2063]
9. Mention the contents of spermatic cord. [2061]
10. Describe the path of sperm cell from their origin to their exit from the body. [2060]

#### Long Questions (6 Marks)

11. Describe the process of spermatogenesis. List the secondary characteristics features in male. [2079]

### FEMALE REPRODUCTIVE SYSTEM

#### Very Short Questions (2 Marks)

1. Name the parts of female reproductive system. [2080,2064]
2. Write the blood supply of uterus. [2071]
3. Write down the organ of female reproductive system. [2065]

#### Short Questions (4 Marks)

4. Explain menstrual cycle. [2077]
5. What is oogenesis and describe the process of oogenesis. [2073]
6. Describe internal structure of female reproductive system with well labeled diagram and also mention the support of uterus. [2072]
7. Draw a figure showing internal organs of female reproductive system. [2070, 2066]
8. Define ovulation. Mention its mechanism. [2069]
9. Draw a well labeled diagram of internal organs of female reproductive organs. Mention the support of uterus. [2068,2067]
10. Write short note on menstrual cycle. [2065]
11. Explain secretory phase of menstruation. [2062]
12. List the function of ovaries and uterus. [2060]

#### Long Questions (6 Marks)

13. Describe the menstrual cycle. [2080,2069,2063,2065,2064]
14. Write down the differences between spermatogenesis and oogenesis. [2075]
15. Describe menstrual cycle. List the secondary sexual characteristics in female. [2075]
16. Describe mechanism of menstrual cycle. [2072]
17. What is Graffian follicle and LH surge? Mention the structure, function and supports of uterus. [2066]

## HUMAN GROWTH AND DEVELOPMENT

### Very Short Questions (2 Marks)

1. Differentiate between growth and development. [2080,2077]
2. What are growth and development? [2079]
3. Define growth and development. [2074]
4. Define embryonic and fetus stage. [2073]
5. What is neonate, infant, childhood and adulthood? [2066]
6. Define placenta. [2065]
7. Distinguish between growth and development. [2064]
8. Write down the functions of placenta. [2063]

### Short Questions (4 Marks)

9. Describe fetal circulation. [2077]
10. What is embryo? Describe fetal circulation. [2066]
11. Explain fetal blood circulatory system. [2060]

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