

Pharma-D First Year Human Anatomy And Physiology

Important Question Bank

Essay Questions Pharma-D 1st Year:

1. Give an account of the composition and functions of blood. Mention the disorders of blood components.
2. Describe the structure, secretions and functions of anterior pituitary gland. Add a note on hyperthyroidism.
3. With a neat and labelled diagram, describe the structure and functions of heart. Write briefly on pulmonary circulation.
4. With a neat and labelled diagram, describe the structure and functions of the kidney. Explain how urine is formed.
5. Define a Cardiac cycle. Describe the various events taking place in a cardiac cycle with time sequences.
6. List out the secretions from pituitary gland with its Physiological functions.
7. Explain the Structure and Physiological functions of Thyroid gland
8. Discuss about pancreatic islets and its hormones functions. Explain the diabetes mellitus and its complications
9. Explain the structure of skin with labelled diagram. Write about the functions of skin.
10. Explain the menstrual cycle
11. Draw the neat diagram of heart and label it. Explain the structure of heart. Discuss about the blood flow process in the heart.
12. Describe the anatomy of lungs and physiology of respiration with diagram.
13. What are the endocrine glands of our body and give their functions?

14. Draw a neat labeled diagram of different parts of nephron. Explain the mechanism and hormones regulating urine formation.
15. Discuss the anatomy of pituitary gland and name the hormones secreted by pituitary gland. Describe briefly the physiological functions and abnormalities of growth hormone.
16. Describe the mechanism of coagulation of blood with clotting factors involved. How do intrinsic and extrinsic pathways differ? Add note on erythropoietin.
17. Explain in detail about the mechanism and regulation of respiration. Explain the following terms:
 - (i) End Diastolic Volume (EDV).
 - (ii) Vital Capacity (VC).
 - (iii) Glomerular Filtration Rate.
18. With a labelled diagram explain the parts of nephron. Explain the mechanism of urine formation.
19. Explain the stages of erythropoiesis. Explain the life cycle of RBCs.
20. Classify hormones with examples. Explain the physiological functions, regulations and deficiency of GH.
21. Define Blood pressure. Write a note on blood pressure. How blood pressure is controlled and regulated?
22. Describe the features of thyroid gland. Explain the biosynthesis and functions of thyroid hormones.
23. Draw a neat diagram of brain and discuss about the functional areas of cerebrum.
24. Composition and functions of blood.
25. With labeled diagram describe shortly about the respiratory system and its parts.
26. Explain about the female reproductive system with diagram.
27. Draw a neat diagram of heart and discuss about circulation of blood.
28. Discuss about thyroid gland and its hormones.

29. Explain the anatomy and physiology of spinal cord.
30. Explain the secretions and functions of accessory gland of GIT.
31. Explain the anatomy of eye with a neat labeled diagram. Explain about image formation.
32. Describe the anatomy of upper respiratory track and mechanism of respiration.
33. Explain the formation of urine. Justify the role of hormones in micturition.
34. Explain the various processes in spermatogenesis; write notes on the structure of a matured sperm.
35. Describe in detail the structure and functions of the Kidney. Add a note on mechanism of Micturition.
36. Explain the various events takes place in Cardiac cycle with time sequences.
37. List out the Hormones secreted by Pituitary glands. Discuss in detail the physiological functions and abnormalities of Growth Hormone.
38. Describe the anatomy of Female Reproductive system with neat labelled diagram.
39. Discuss the mechanism of coagulation of blood with clotting factors involved. Add a note on Intrinsic and Extrinsic pathways.
40. With a neat labeled sketch, explain the anatomy of human Brain. Write the functions of Cerebrospinal fluid.
41. Discuss in detail the structure and physiological functions of Thyroid gland.
42. Explain in detail the various phases involved in the regulation of Gastric secretion. Add a note on digestion and absorption of Proteins.
43. Give an account of the composition and functions of blood. Mention the disorders of blood components.
44. Explain the anatomy and physiology of spinal cord.
45. Write in detail the regulation of Respiration.
46. Explain the anatomy of eye with a neat labelled diagram. Explain the physiology of vision.
50. What are the Endocrine glands of our body and give their functions?
51. Describe the anatomy of Lungs and physiology of respiration with diagram.

52. Draw a neat diagram of heart and explain the physiology of the heart.
53. Explain the stages of Erythropoiesis. Explain the life cycle of RBCs.
54. Explain in detail the negative feedback mechanism of Renin-Angiotensin-Aldosterone system.
55. Explain the structure of Renal glands with neat labeled diagram.
56. Enumerate the clotting factors and explain the mechanism of Blood coagulation.
57. Explain in detail the structure, hormones and functions of anterior pituitary gland.
58. Draw a neat labeled diagram of Brain and explain the functions.
59. Explain the structure of Ear with a neat labeled diagram.
60. Classify Joints and explain the different types of joints with suitable examples.
61. Explain in detail the structure, hormones and functions of Adrenal gland.
62. Explain the cranial nerves and its function.
63. Explain the structure of ear with a neat labeled diagram.
64. Classify joints and explain the different types of joints with suitable examples.
65. Explain in detail the structure, hormones and functions of adrenal gland.
66. Discuss in detail the composition and functions of blood. Add a note on disorders of platelets.
67. Define cardiac cycle. Discuss the various events taking place in a cardiac cycle with time sequences.
68. With a neat labeled sketch explain the parts of Nephron. Explain the mechanism of urine formation.
69. Explain about the female reproductive system with diagram. Add a note on spermatogenesis.
70. Discuss the various phases involved in the regulation of Gastric acid secretion.
71. Describe in detail the anatomy of eye with a neat labeled diagram. Explain about image formation.
72. Explain the stages of Erythropoiesis. Add a note on life cycle of erythrocytes.

73. Explain in detail the various phases in menstrual cycle. Write about sex determination.

Write Short notes Questions

1. Cranial nerves.
2. Epithelial tissue.
3. Types of movements of joints.
4. Ovulation.
5. Regulation of respiration
6. Digestion and absorption of proteins
7. Classify Joints with the possible movements of joints from its location.
8. Enumerate the functions of blood.
9. Differentiate the terms Digestion and Absorption.
10. Describe the contraceptive devices for both Male and Female based on temporary method.
11. Write a brief note on Drug docking.
12. White blood cells and its function.
13. Salivary glands and its functions.
14. Clotting mechanism.
15. Adrenal medulla
16. Disorders of pituitary glands.
17. Enumerate the functions of blood.
18. Write the vital centres in brain.
19. Explain in brief structure and functions of skin.
20. Write the various types of clotting factors.
21. Describe briefly about the mechanism of micturition.
22. Write a note on electrocardiogram.
23. Write about muscle in exercise.
24. Discuss about any three disorders involved in gastrointestinal tract.
25. Write three phases involved in gastric juice.
26. Write the Non auditory functions of ear and name the nerves of audition.
27. Explain the factors controlling erythropoiesis.
28. Anatomy and functions of liver.
29. Write a note contraceptive device.
30. Draw a neat labeled diagram of human brain structure
31. Explain Oogenesis
32. Write the physiological functions of sympathetic system.
33. Explain various phases of ECG
34. Explain with a diagram the knee joint
35. Draw a labeled diagram of innominate bone and describe it.

36. Spleen and its functions.
37. Pulmonary circulation
38. Lung volumes.
39. Structure and functions of pancreas
40. Reflex arc.
41. Functions of glucocorticoids
42. Genetic basis of sex determination
43. Physiology of vision
44. Physiology of muscle contraction
45. Draw the structure white blood cells and give the functions.
46. Write the physiological changes focusing respiration, heart rate during exercise.
47. With the diagram explain the micturition response.
48. Explain the mechanism of vision
49. Explain the anatomy of sympathetic system
50. How gases are transported in the body?
51. What is ECG? With diagram explain the events of ECG.
52. Write the function and disorders of spleen.
53. Explain the properties of skeletal muscle
54. Structure of neuron.
55. Write a note on white blood cells and their functions.
56. Describe the anatomy of lungs
57. Cerebrospinal fluid.
58. Genetic basis of sex determination
59. Spleen and its functions
60. Histology of retina
61. Structure and functions of cerebellum
62. Structure of kidney
63. Write a note on various salivary glands. Give the composition and functions of saliva
64. Synovial joints
65. Cranial nerves and its functions
66. Juxtaglomerular apparatus.
67. Menstruation cycle
68. Physiology of hearing
69. Glucocorticosteroids.
70. Mechanism of respiration
71. Cerebrospinal fluid
72. Oogenesis.
73. Physiological properties of skeletal muscle
74. Micturition.
75. Explain the structure and function of skin.
76. Write notes on synovial joint.
77. Explain the endocrine and exocrine role of pancreas.
78. Write notes on pulmonary circulation
79. Write notes on ECG
80. Write notes on the different salivary glands

81. Enumerate the functions of blood
82. Write the vital centers in brain
83. Write a note on types of movements of joints
84. Discuss the salivary glands and its functions
85. Explain the various types of clotting factors
86. Write a note on muscles in exercise
87. Write a note on the conduction system of Heart.
88. Write a note on Spermatogenesis
89. Explain the functions of Parasympathetic system
90. Name the bones of Skull. Write the sutures of Skull
91. Explain the physiology of hearing
92. Write a note on drugs and athletics
93. Micturition.
94. Structure of kidney
95. Explain the knee joint with a diagram
96. Structure and functions of pancreas.
97. Reflex arc.
98. Synovial joint
99. Structure and function of skin.
100. Cerebrospinal fluid.
101. Phases of gastric juice secretion
102. Explain Oogenesis
103. Contraceptive devices
104. Explain the simple reflex arc.
105. Write the functions of liver.
106. Write about the different types of nervous tissue
107. Micturition.
108. Explain the genetic basis of sex determination.
109. Write a note on the functional areas of cerebrum
110. Write the composition and functions of digestive juice
111. Write a note on the conduction system of heart
112. Haemopoiesis.
113. Write a note on clearance tests and its significance
114. Write a note on the functional areas of cerebrum
115. Define congestive cardiac failure, asphyxia, and Myocardial Infarction
116. Name the types of salivary glands, its location and functions
117. Write a note on the conduction system of heart.
118. Haemopoiesis.
119. Write a note on sympathetic nervous system.
120. Write a note on electrocardiogram.
121. Write a note on mechanism of respiration.
122. Explain the anatomy and physiology of skin.
123. Discuss the digestion and absorption of proteins
124. Explain the properties of skeletal muscle.
125. Explain briefly the vital centres of brain
126. Write a note on contraceptive devices
127. Explain briefly about drugs and athletics
128. Write the functions of white blood cells

- 129. Write notes on pulmonary circulation
- 130. Explain in detail about cerebrospinal fluid

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