

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-I Degree Examination JULY 2019

Time:3 hours

Max Marks:100

PHYSIOLOGY PAPER I

Your answer should be specific to the question asked. Draw neat and labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Explain the spread of cardiac impulse in conducting system of the heart. Explain AV nodal delay.
2. Name the muscles involved in respiration. With neat labeled diagram explain the mechanism of respiration.

SHORT ESSAY

10 X 5 = 50 Marks

3. Explain the role of B cells in immunity.
4. Describe the regulation of cerebral circulation.
5. With the help of flow chart explain micturition reflex.
6. List and describe movements of large intestine.
7. Classify leucocytes. Describe the role of leucocyte in providing immunity.
8. Draw a neat labeled diagram of oxy hemoglobin curve. Enumerate the factors that shift the curve to the left.
9. Describe the 2nd stage of deglutition.
10. Describe the role of countercurrent multiplier system in concentrating urine.
11. List & Explain factors influencing venous return.
12. Define jaundice. Explain the physiological basis of clay coloured bulk stools.

SHORT ANSWERS

10 X 3 = 30 Marks

13. State Landsteiner's law. Indicate to which blood group system it is not fully applicable.
14. Give the basis of bradycardia in increased intracranial tension.
15. Describe obligatory reabsorption of water.
16. Give the physiological basis why liver disease is associated with oedema.
17. Name three important plasma proteins. Give one important function of each.
18. Classify hypoxia. Explain any one.
19. Blood flow in a constricted blood vessel is turbulent. Justify.
20. Mention the functions of enzymes in pancreatic juice.
21. Explain why alveoli are kept dry.
22. List the differences between first and second heart sounds.

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PHYSIOLOGY- PAPER 2

Your answer should be specific to the question asked. Draw neat and labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. With neat labeled diagrams describe the pain pathway. Explain the theories of referred pain.
2. Explain the role of insulin as a hypoglycemic hormone.

SHORT ESSAY

10 X 5 = 50 Marks

3. With neat labeled diagrams explain the different refractive errors and their correction
4. Explain the role of muscle spindle in the regulation of muscle length.
5. Describe the etiology and clinical features of Myxedema.
6. Draw a neat labeled diagram of Auditory pathway.
7. Define neuroendocrine reflex. Explain with an example.
8. Name the different components of the Limbic system and list the functions.
9. Explain fetoplacental unit.
10. In a flow chart list the events of excitation contraction coupling.
11. Explain Aldosterone escape.
12. Draw a neat labeled diagram of a neuron. Explain the conduction of impulse in myelinated nerves.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Draw a labeled diagram of taste pathway.
14. Give the cause of Parkinsonism and physiological basis of treatment.
15. Diagrammatically represent regulation of growth hormone.
16. Draw a neat labeled diagram of olfactory pathway.
17. Name the hormones that regulate calcium homeostasis
18. Explain the Mullers doctrine of specific nerve energies.
19. Name 3 temporary methods of contraception in females.
20. Give the cause for and principle of treatment of Myasthenia Gravis.
21. List 3 important properties of action potential.
22. List the functions of vestibular apparatus