SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-I Degree Examination SEPTEMBER 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. Define circulatory shock. Describe clinical features of circulatory shock. Outline the principles of treatment of hypovolemic shock. (2+5+3)
- 2. With neat labeled diagram describe the hemoglobin oxygen dissociation curve. Explain the effect of exercise on it.(7+3)

SHORT ESSAY

10 X 5 = 50 Marks

- 3. Give the cause of hemophilia and its presenting symptom. (5)
- 4. List &Describe the properties of cardiac muscle.(2+3)
- 5. Describe autoregulation of renal blood flow.(5)
- 6. List and describe the different types of movements of small intestine.(2+3)
- 7. Explain the basis of erythroblastosis foetalis. Give principle of prevention and treatment. (3+2)
- 8. List and describe the functions of surfactant.(2+3)
- 9. Name the bile salts. List the functions of bile salts(2+3)
- 10. Explain the process of H+ secretion in the renal tubules(5)
- 11. Draw and label a normal ECG recorded from lead II. Describe the waves and intervals in an ECG and its clinical significance.(2+3)
- 12. Outline the steps of Phagocytosis using flow chart.(5)

SHORT ANSWERS

10 X 3 = 30 Marks

- 13. Explain the cause of physiological jaundice
- 14. Explain the relationship between flow, viscosity and radius (Poiseuille-Hagen formula) in a blood vessel.
- 15. Name 2 hormones acting on renal tubules.
- 16. Give reasson for blood becoming alkaline after meals.
- 17. What happens to RBC count in high altitude. Why.
- 18. Explain the role of blood brain barrier in regulation of respiration.
- 19. Classify Transport across across cell membrane with examples
- 20. Describe mass peristalsis
- 21. Describe the ventilatory response to breath holding.
- 22. Define End diastolic volume. Mention its normal volume & give its significance.

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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

- 23. Mention the functions of Basal Ganglia explain the cause, feature and treatment of Parkinsonism.(5+1+2+2)
- 24. List the hormones secreted by the posterior pituitary gland. Describe the functions of each. (2+8)

SHORT ESSAY

10 X 5 = 50 Marks

- 25. Describe phototransduction(5)
- 26. Explain the role of Hypothalamus in the food intake.(5)
- 27. Give an example of positive feedback mechanism & explain
- 28. Draw a neat labeled diagram of a taste bud. Explain the mechanism of perception of taste.(2+3)
- 29. Give the cause & explain the basis of the features of Diabetes Mellitus.(1+4)
- 30. Draw a neat labeled diagram of cross section of spinal cord showing the different ascending tracts.(5)
- 31. Describe the endometrial changes in menstrual cycle(5)
- 32. Draw a neat diagram of a neuromuscular junction. In a flow chart represent neuromuscular transmission.(2+3)
- 33. Give the cause & explain the basis of the features of Graves disease.(1+4)
- 34. Describe Rigor mortis.(5)

SHORT ANSWERS

10 X 3 = 30 Marks

- 35. Draw a neat labeled diagram of olfactory receptor (3)
- 36. Define synapse. Mention 2 types of synapse in nervous system.(1+2)
- 37. Describe negative feedback in secretion of hormone with an example.(3)
- 38. List the Clinical tests for hearing.
- 39. Draw a neat labelled diagram of reflex arc.(3)
- 40. Name the ascending tracts and sensations carried by them.
- 41. List the functions of progesterone.
- 42. Describe Refractory period and give its importance.
- 43. List the differences between upper and lower motor neuron lesion.
- 44. List the functional areas of the cerebral cortex and mention the function of each.