SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)
M.B.B.S. PHASE – I Degree Examination – July-2016

Time : 3 Hrs. **[Max. Marks : 100]**

PHYSIOLOGY- PAPER I

Q.P Code : SDUU -103

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.

LONG ESSAY **2 X 10 = 20 Marks**

1. Classify leucocytes and tabulate their morphological features. List the functions of neutrophils.
2. Write the composition of gastric juice. Describe the various phases of gastric secretion. Add a note on peptic ulcer.

SHORT ESSAY **10 X 5 = 50 Marks**

3. Pacemaker potential.
4. Plasma proteins and their functions.
5. Composition and functions of pancreatic juice.
6. Baroreceptor reflex.
7. Heart sounds.
8. Dead space.
9. Micturition reflex.
10. Water reabsorption in kidneys.
11. Excitation contraction coupling.
12. Bipolar leads.

SHORT ANSWERS **10 X 3 = 30 Marks**

13. Erythroblastosis fetalis.
14. Anticoagulants-classify with one example each.
15. Six special features of coronary circulation.
16. Define clearance value of a substance with example.
17. Functions of saliva.
18. Peritoneal dialysis.
19. Draw a spirogram showing different lung volumes and capcities.
20. Define Dyspnoea, Tachypnoea and Orthopnoea.
21. What is chloride shift? Mention its significance.
22. Define Asphyxia. List its stages with the cause.

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PHYSIOLOGY - PAPER II

Q.P Code : SDUU -104

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY **2 X 10 = 20 Marks**

1. Enumerate the harmones of the pituitary. Describe the mechanism of action of pituitary harmones in detail.
2. Discuss the hypothalamo-hypophyseal control of OVULATION and SPERMATOGENESIS.

SHORT ESSAY **10 X 5 = 50 Marks**

3. Features of myxoedema.
4. Diabetes mellitus.
5. Endocrine basis of short stature.
6. Menopausal syndrome.
7. Endocrine functions of testis.
8. Mechanism of colour vision.
9. Impedance matching in middle ear.
10. Discuss the role of motor functions of basal ganglia.
11. List the functions of hypothalamus. Describe any two functions in detail.
12. Safe method of family planning.

SHORT ANSWERS **10 X 3 = 30 Marks**

13. Conn's syndrome.
14. Adrenogenital syndrome.
15. Otolith organ.
16. Draw a labelled diagram of taste buds.
17. Bell megendie law
18. Macular sparing.
19. Reticular activating system.
20. Wernicke's area.
21. Papetz circuit.
22. Role of P substance in synaptic transmission.

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PHYSIOLOGY– PAPER I

Q.P Code : RS -103

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any 2 only) **2 X 10 = 20 Marks**

1. Define cardiac output. Explain hetero metric regulation of cardiac output.
2. List the forms by which Carbondioxide is transported. Explain Hamberger's phenomenon. Add a note on Haldane's effect.
3. Define and classify immunity. Explain the various innate immune mechanisms.

SHORT ESSAY (Answer any 10 only) **10 X 5 = 50 Marks**

4. Gastric mucosal barrier.
5. Enterohepatic circulation of bile salts.
6. Define GFR. List the factors regulating it.
7. Pancreatic enzymes.
8. Dead space.
9. Renal functional tests.
10. Pacemaker potential.
11. Baroreceptor reflex.
12. Special features of coronary circulation.
13. Plasma pheresis.
14. Na+k+ - pump.
15. Erythroblastosis foetalis.

SHORT ANSWERS (No Choices) **10 X 3 = 30 Marks**

16. Triple response.
17. Bain bridge reflex.
18. Auto regulation of blood flow.
19. Cyanosis.
20. Second phase of deglutition.
21. CCK-PZ.
22. Diagram of innervation of urinary bladder.
23. Muscles of respiration.
24. Functions of platelets.
25. IRDS

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PHYSIOLOGY– PAPER II

Q.P Code : RS -104

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any 2 only) **2 X 10 = 20 Marks**

1. Describe the major functions of glucocorticoids, adrenal androgens, and aldosterone.
2. List and explain the differences between explicit and implicit memory? Explain déjà Vu.
3. Describe the connections of cerebellum? Discuss the functions of the cerebellum and the neurologic abnormalities produced by disease of cerebellum.

SHORT ESSAY (Answer any 10 only) **10 X 5 = 50 Marks**

4. Describe the source of calcitonin, and its principal actions.
5. Describe the structure of muscle spindles.
6. Describe the significance of decerebrate rigidity.
7. Describe the brain concerned with language functions.
8. Explain clinical picture produced in Cushing's syndrome.
9. Explain clinical picture in insulin-dependent diabetes mellitus.
10. Describe the role of the hypothalamus in the regulation of food intake.
11. What is the tympanic reflex, and what is its function.
12. Describe color blindness.
13. Describe spermatogenesis and list the factors regulating it. What is capacitation of sperms?
14. Describe the regulation of circadian rhythms.
15. Describe the effect of lesions in the optic pathways.

SHORT ANSWERS (No Choices) **10 X 3 = 30 Marks**

16. Name the neurotransmitters secreted by preganglionic autonomic neurons.
17. Explain brain reward system to addiction.
18. Explain intention tremor.
19. Explain Blood-Testis Barrier.
20. Describe the functions of corpus luteum.
21. Describe the dermatomal rule.
22. Explain inverse stretch reflex.
23. What is Cretinism.
24. Describe the resting membrane potential.
25. Describe otolithic organ.

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