

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S. PHASE – I Degree Examination – January-2013

Time : 3 Hrs.

[Max. Marks : 100]

PHYSIOLOGY– PAPER I

Q.P Code : 103 - SDUU

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the leads, waves and segments of electro cardiogram. (ECG) What are it's uses?
2. Describe the mechanics of normal respiration. Add a note on lung Thoracic compliance?

SHORT ESSAY

10 X 5 = 50 Marks

3. Cardiac cycle - volume and pressure changes.
4. Cerebral circulation.
5. Pulmonary surfactant.
6. Forced expiratory volume in the first second. Fev₁.
7. Gastric juice.
8. Enterohepatic circulation.
9. Renal circulation.
10. Acidification of urine.
11. Intercellular communications.
12. Anticoagulants.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Windkessel vessels
14. Pancreatic enzymes.
15. Gastrin.
16. Heart sounds.
17. Define cardiac output and cardiac index giving their normal values.
18. Facultative reabsorption of water.
19. Lymphocytes.
20. Erythroblastosis fetalis.
21. Landsteiner's laws.
22. Anemias.

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PHYSIOLOGY– PAPER II

Q.P Code : 104 - SDUU

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

LONG ESSAY

2 X 10 = 20 Marks

1. Discuss the hormonal regulation of ovulation what are the tests to detect ovulation
2. Trace the pain pathways. Add a note on endogenous analgesic systems.

SHORT ESSAY

10 X 5 = 50 Marks

3. Rapid eye movement sleep.
4. Excitation contraction coupling.
5. Muscle fatigue.
6. Aphasia.
7. 1,25 Dihydroxy chole calciferol.
8. Actions of catecholamines on cardio–vascular system.
9. Cushings syndrome.
10. Releasing hormones.
11. Organ of corti.
12. Sertoli cells.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Parkinsons disease.
14. Thermostat.
15. Law of projection.
16. Inverse stretch reflex.
17. Neuro muscular blocking drugs.
18. Saltatory conduction.
19. Impedence matching.
20. Colour blindness
21. Taste pathway.
22. Dark adaptation.