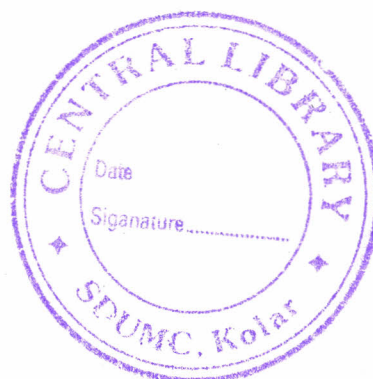


PHYSIOLOGY – PAPER I**Q.P Code : 103 - SDUU***Your answers should be specific to the questions asked.**Draw neat labelled diagrams wherever necessary.***LONG ESSAY****2 X 10 = 20 Marks**

1. Describe the mechanics of normal respiration. Add a note on respiratory distress syndrome
2. Define cardiac output. Describe how different factors contribute for the regulation of cardiac output. Add a note on measurement of cardiac output.

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

3. Glucose reabsorption in renal tubules
4. Origin and spread of cardiac impulse
5. Role of kidney in pH regulation
6. Bleeding and clotting disorders
7. Composition and functions of lymph
8. Central and peripheral chemoreceptors
9. Total peripheral resistance
10. Residual volume in lungs and its measurement
11. Hormones acting on renal tubules and their actions
12. Pharyngeal phase of deglutition

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

13. Micturition reflex
14. Functions of thrombocytes
15. Renal plasma clearance of (PAH) Para Amino Hippuric acid and urea
16. Special conducting system in mammalian heart
17. Oxygen dissociation curve and shift to the right
18. ECG (Electrocardiogram) from aVR lead and explain ventricular complex in it
19. Blood indices and their significance
20. Resting membrane potential and normal values
21. Gastric emptying
22. Anticoagulants acting in vitro and in vivo

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. Describe connections and functions of basal ganglia; add a note on Parkinson's syndrome
2. Describe bio-synthesis, actions and regulation of gluco-corticoids.

SHORT ESSAY

10 X 5 = 50 Marks

3. Brown sequard syndrome
4. Proprioceptors in skeletal muscle
5. REM and NREM sleep
6. Composition and functions of cerebrospinal fluid
7. Biological actions of hypocalcemic hormone
8. Hormonal actions on mammary gland tissue in a virgin woman and post-partum woman
9. Nerve supply for adrenal medulla and actions of the hormones produced from there
10. Clinical picture of hypothyroidism and hypo-pituitarism in a child
11. Excitation- contraction coupling mechanism in skeletal muscle
12. Compare and contrast generator potential and action potential

SHORT ANSWERS

10 X 3 = 30 Marks

13. Degeneration and regeneration in nerve fibre, when the axon is sectioned
14. Biological thermostat
15. Primary taste sensations
16. Motor homunculus
17. Synaptic inhibitions
18. Macula of internal ear
19. Spermatogenesis
20. Presbyopia and astigmatism
21. Impedance matching in auditory apparatus
22. Actions of gonadotropic hormones in male and female

