## MBBS PHASE - I Degree Examination - 27-Mar-2021

Time: 3 Hours. Max. Marks: 100 Marks

## PHYSIOLOGY - I (RS3) QP Code: 1077

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

LONG ESSAY 2 X 10 = 20 Marks

- 1. Define cardiac output and cardiac index. Describe the various factors regulating cardiac output.
- 2. What are chemoreceptors? Describe the chemical control of regulation of respiration. Add a note on Cheynes-Stokes breathing.

SHORT ESSAY 10 X 5 = 50 Marks

- 3. Factors affecting erythropoesis.
- 4. Describe the formation and functions of immunoglobulins.
- 5. Gastric phase of gastric secretion
- 6. Outline the formation, transport and excretion of bilirubin.
- 7. Describe the different types of movements of small intestine.
- 8. Describe micturition reflex.
- 9. Timed vital capacity
- 10. Briefly describe the changes occurring during acclimatization to high altitude.
- 11. Draw and describe pacemaker potential.
- 12. Peripheral resistance

SHORT ANSWERS 10 X 3 = 30 Marks

- 13. Explain the functions of plasma albumin.
- 14. Pancreatic enzymes
- 15. Write the changes occurring in tubular fluid, in the collecting duct.
- Draw a neat diagram of cortical and juxtamedullary nephron.
- 17. Significance of AV nodal delay
- 18. Incomplete tetanus
- 19. Draw and label different lung volumes and capacities.
- 20. Facilitated diffusion
- 21. Functions of T helper cell
- 22. Steatorrhea

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