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2019 Scheme

Q.P. Code: 113001

Reg. no.:

First Professional MBBS Degree Regular Examinations March 2021 Physiology I

Time: 3 Hours

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Long Essays

- A 55-year-old businessman was brought to medicine casuality with severe chest pain. He was sweating and his BP was 140/94 mm Hg, heat sounds were muffled and the ECG showed ST elevation in lead II and avf.
 - What is the most probable diagnosis.
 - Discuss the pathophysiology of this condition and principles of management.
 - What are the special features of coronary circulation (2+7+6)
- 2. List the cells and secretion from the Oxyntic gland of the stomach. With the help of a diagram explain the mechanism of gastric acid secretion. Explain the phases of gastric acid secretion (5+5+5)

Short essays

- 3. Describe the structure and functions of platelets
- 4. Discuss the cause and clinical features and treatment of dysbarism
- 5. Describe carbon dioxide transport in the blood
- 6. Explain Starling's law as applied to cardiac muscle
- 7. Describe the functions of large intestine and add a note on cause and pathophysiology of Megacolon (Hirschsprung's disease)

Write briefly

- 8. Describe structure and functions of neutrophil
- 9. Define dead space. Describe the types
- 10. Functions of reticuloendothelial system
- 11. Describe the role of bicarbonate buffer system in aid-base balance
- 12. List the hazards of blood transfusion

One word Answers

- 13. ECF volume is determined by
- 14. Normal value of renal threshold is
- 15. The force of muscle contraction can be increased by
- 16. The center regulating temperature in cold environment is located in hypothalamus.
- 17. The wheal in the triple response is due to
- 18. The volume of air that moves in or out during each tidal breath is called
- 19. Intrapleural pressure is normally negative because.....
- 20. The law explaining plasticity of urinary bladder.....
- 21. The name of cells secreting renin in kidney.....
- 22. In caissons disease pain in the joints is due to

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Total Marks: 100

(2x15=30)

(5x8=40)

(10x1=10)

(5x4=20)