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2019 Scheme

Q.P. Code: 113001

Reg. no.:

First Professional MBBS Degree Supplementary (SAY) Examinations **August 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

- 1. A 55- year old man is brought to the casuality after a road traffic accident. He was disoriented and irritable. On examination his blood pressure was 90/40 mmHg, respiratory rate was 24/minute and pulse rate was 150 /minute. His ECG did not show any abnormality.
 - What is your diagnosis
 - Discuss the physiological basis for various clinical features seen and management of this condition
 - Describe baroreceptor reflex.
- 2. Name the location of the respiratory centres. Explain their role in the regulation of respiration. Describe the mechanisms of periodic breathing. (4+6+5)

Short essays

- 3. Describe the role of T- lymphocytes in immune mechanisms.
- 4. Describe the dangers associated with blood transfusion. Explain what precautions could be taken to prevent them.
- 5. Functions of Neutrophil
- 6. Counter-current exchange system.
- 7. Name the types of intestinal movements and explain their functions.

Write briefly

- 8. Explain the regulation of gastric juice secretion in different phases.
- 9. Draw and label a normal cystometrogram.
- 10. Explain the physiological basis of symptoms in decompression sickness.
- 11. With the aid of a schematic diagram, describe the intrinsic pathway of coagulation
- 12. Draw a tracing of the jugular venous pressure and give the basis of each wave.

One word Answers

- 13. The cell that processes and presents antigens to lymphocytes is
- 14. Nutritional anaemia seen in Vitamin B₁₂ deficiency is.....
- 15. The tissue capacity to utilise oxygen is lost intype of hypoxia
- 16. Combination of hypoxia and hypercapnia is called......
- 17. The role of pudendal nerve in micturition reflex is by controllingsphincter
- 18. Heart sound produced due to closure of the aortic and pulmonary valves is.....
- 19. QRS complex in ECG indicates.....
- 20. Part of the nephron in which the maximum amount of water is reabsorbed is.....
- 21. The final product of carbohydrate digestion is
- 22. Defecation observed immediately after a meal in children is due to...... reflex

Total Marks: 100

(2x15=30)

- (1+5+4+5)

 - (5x8=40)
 - (5x4=20)

(10x1=10)

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