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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 Total Marks: 100

- 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/diag grams/flow charts wherever necessary

Long Essays

(2x15=30)

- 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.

(1+5+4+5)

2. Name the location of the respiratory centres. Explain their role in the regulation of respiration. Describe the mechanisms of periodic breathing.

Short essays

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

Write briefly

(5x4=20)

- 8. Explain the regulation of gastric juice secretion in different phases.
- 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 B<sub>12</sub> deficiency is..

- 17. The role of pudendal nerve in micturition reflex is by controlling ...
- 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

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