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## 2019 Scheme

Q.P. Code: 113001 Reg. no.: .....

First Professional MBBS Degree Regular/Supplementary Examinations February 2022 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/diagrams/flow charts wherever necessary

Long Essays

(2x15=30)

An individual was brought to a hospital from the site of an accident. He showed following signs and symptoms: Restlessness, extreme weakness, pale, cold, clammy skin, rapid, thready pulse

hypotension, oliguria

What is your diagnosis

- · Define it and classify it. Explain it with examples
- How do you explain the signs and symptoms
- What are compensatory regulatory mechanisms which will operate in the body to bring back all the signs and symptoms to normal

  • What immediate treatment do you suggest (1+6+2+4+2)

  2. Describe the role of counter current multiplier and exchanger system in the

concentration of urine. Add a note on renal failure and artificial kidney. (6+4+5)Short essays (5x8=40)

- Describe the phases of gastric secretion. How is it regulated.

  Describe the stages of erythropoiesis with the help of diagrams. Describe the factors
- regulating it. Add a note on polycythemia.

  Define immunity and classify it. Explain the mechanism of cell-mediated immunity.

  Add a note on natural killer cells.
- Describe the respiratory pressure changes with diagrams. Add a note on ventilation perfusion ratio.
- Define cardiac cycle. Explain the mechanical and pressure events of it with help of a neat labelled diagram.

Write briefly
8. With the aid of a diagram, explain how capillary fluid exchange is modified in

- hypoproteinemia. Draw and label the conducting system of heart.

  Mismatched blood transfusion.

- 11. Draw a neat labelled diagram of the respiratory membrane, indicating the factors affecting diffusion across it.

12. Hypothermia
One word Answers

(10x1=10)

- 15. Purpura is caused due to deficiency of -----
- Blood is stored in blood banks at ---- Decreased heart rate in athletes is due --------- degree centigrade
- in vagal tone.
- The shock produced due to hypersensitivity reaction is Difficulty in breathing on lying down is called ------
- Influence of oxygen on the release of uptake of carbon dioxide is called ------ effect.
   Alteration of heart rate in different phases of respiration is called -------
- 22. Ptyalin is an enzyme present in -----Elle Hallke

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