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

First Professional MBBS Degree Regular/Supplementary Examinations February 2023 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)

- A 30 years old woman comes to the hospital with complaints of fatigue for many months. On physical examination she has pale conjunctiva and spooning of nails. Her hemoglobin is 8gm% PCV is 20% and MCV is 80 fL. Stools are negative for occult blood.
 - · Name the clinical condition.
 - Describe the blood picture.
 - What other investigations would you like to do in this condition.
 - · What are the dietary options for her betterment.

(4+3+3+5)

Describe the regulation of blood pressure.

Short essays (5x8=40)

- Explain chemical regulation of respiration.
- 4. Composition of saliva, describe the functions of saliva.
- Explain T lymphocyte
- Explain ventilation perfusion ratio.
- Explain the factors that determine cardiac output. What is cardiac failure.

Write briefly (5x4=20)

- 8. What is surfactant. Write down the functions of surfactant.
- Splay
- Oxygen dissociation curve
- Draw and label juxtaglomerular apparatus.
- Postprandial alkaline tide

One word Answers (10x1=10)

- 13. Rh incompatibility is seen in
- Urine output is decreased in summer season because......
- 15. Gastrectomy produces pernicious anemia.....
- 16. Bile enters the digestive tract through
- 17. Lymphoid organ that functions as a reservoir for red blood cells
- 18. The enzyme present in saliva that acts on starch.....
- 19. Normal value for transport maximum of glucose
- 20. Non pitting oedema is found in
- 21. Deafferentation of urinary bladder produce
- 22. In humans effective renal plasma flow is

