



Q.P. Code: 113001

2019 Scheme

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)

1. 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 Bgm% 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.
2. Describe the regulation of blood pressure. (4+3+3+5)

Short essays

(5x8=40)

3. Explain chemical regulation of respiration.
4. Composition of saliva, describe the functions of saliva.
5. Explain T lymphocyte
6. Explain ventilation perfusion ratio.
7. 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.
9. Splay.
10. Oxygen dissociation curve
11. Draw and label juxtaglomerular apparatus.
12. Postprandial alkaline tide

One word Answers

(10x1=10)

13. Rh incompatibility is seen in
14. 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 presents 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
