

QP Code:102114

Reg. No.:.....

**PG Degree Supplementary Examinations in Physiology (MD)  
November 2021**

**Paper II - Systemic Physiology (Haematology, CVS, GIT, Respiratory System,  
Renal Physiology)**

**Time: 3 hrs**

**Max 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*

**Essay:**

**(20)**

1. Explain the interrelationship between the pressure, volume and flow changes that occur during the cardiac cycle.

**Short essays:**

**(8x10=80)**

2. Explain the mechanism of glomerulo-tubular balance and tubule-glomerular feedback.
3. Discuss the respiratory and renal compensatory mechanisms in response to alkalosis
4. Effects of exercise on respiratory system.
5. Physiological significance of the sigmoid shape of the oxygen-haemoglobin dissociation curve.
6. Discuss the physiological basis of the different types of anaemia
7. Describe the digestion and absorption of proteins.
8. Rh incompatibility
9. Defecation reflex

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