

QP Code:102114

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Physiology  
(MD) May 2021**

**Paper II - Systemic Physiology (Hematology, 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. Define shock and describe pathophysiology of types of shock with treatment.

**Short essays:**

**(8x10=80)**

2. Chemical control of respiration.
3. Role of lymphocytes in immunity.
4. Electrocardiogram.
5. Mechanism of concentration of urine.
6. Electrical activity of gastrointestinal smooth muscle.
7. Define GFR (Glomerular Filtration Rate) and explain various factors regulating it.
8. Hypoxia and oxygen therapy.
9. Mechanism of formation of gastric juice.

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