

PG Degree Supplementary Examinations in Physiology (MD)
November 2022

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 stages of leucopoiesis. Explain innate immune response with special emphasis on Natural Killer (NK) cells. (10+10)

Short essays:

(8x10=80)

2. Explain the mechanism of activation of baroreceptors and short term regulations of arterial blood pressure.
3. Explain the pressure – volume changes in left ventricle.
4. Name the dynamic lung volumes and explain their clinical significance.
5. Define and classify hypoxia. Explain any two types in detail.
6. Explain renal handling of Glucose.
7. Explain cystometrogram. Mention its clinical significance.
8. Explain digestion and absorption of lipids by GIT.
9. List the composition of exocrine pancreas. Explain its function, mechanism and regulation of its secretion.
