

Time: Three Hours

Max. Marks: 100

HUMAN PHYSIOLOGY – I (RS)
Q.P. CODE: 3412

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Define arterial blood pressure. Explain its regulation.
2. Describe the lung volumes and capacities with the help of spirogram.
3. Describe the stages of Erythropoiesis with the help of diagram. Add a note on its regulation

SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Explain the Stages of deglutition.
5. Define Immunity and explain its types.
6. Explain structure and functions of Juxta glomerular apparatus.
7. Composition and functions of gastric juice.
8. Explain the micturition reflex.
9. Define and classify Hypoxia. Give two characteristic features of each type
10. Enumerate and list the properties of cardiac muscle. Describe any three of them.
11. Define homeostasis. Explain negative feedback mechanism with suitable example.
12. Describe compensatory mechanisms when exposed to hot and cold environment.
13. State Landsteiner's law. Add a note on erythroblastosis foetalis.
14. Explain fat digestion.
15. Explain the counter current mechanism.

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. Define and classify anemia.
17. Renal clearance.
18. List the muscles of respiration.
19. Gall stones.
20. Secondary active transport.
21. Components of conducting system of heart.
22. Define a) Dyspnea b) Asphyxia c) Cyanosis
23. Functions of hemoglobin
24. Heart sounds
25. Define GFR. Give its normal value.
26. Define shock and name different types of shock.
27. Peristalsis.
