

Time: 3 Hrs.

[Max. Marks: 100]

**PHYSIOLOGY - I (RS2 & RS3)****QP Code: 1077**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

**LONG ESSAY****2 X 10 = 20 Marks**

1. Define cardiac cycle and describe the mechanical changes during a cardiac cycle.
2. Explain oxygen transport from the lungs to the tissues.

**SHORT ESSAY****10 X 5 = 50 Marks**

3. Functions of plasma proteins
4. Describe the fate of haemoglobin following haemolysis.
5. Explain the second stage of deglutition.
6. Describe the actions of bile salts. Name the effects of bile duct obstruction.
7. Cholecystokinin – pancreozymin
8. Define glomerular filtration rate and describe the factors affecting it.
9. Sinoaortic reflex
10. QRS complex
11. Briefly describe the changes occurring during acclimatization to high altitude.
12. Explain the role of inspiratory and expiratory muscles in normal respiration.

**SHORT ANSWERS****10 X 3 = 30 Marks**

13. Name the methods of measurement of cardiac output.
14. Three functions of saliva
15. Functions of collecting duct
16. Explain the role of 'Vasa recta' in renal functioning.
17. Differences between pulmonary and systemic circulation
18. Axon reflex
19. Intercellular communication
20. Physiological dead space
21. Cross matching
22. Important features of iron deficiency anaemia

\* \* \* \* \*