

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
(A DEEMED TO BE UNIVERSITY)

**M.Sc. Molecular Biology & Human Genetics**  
**First Year (Semester-II) May 2023 Examination**

**Time: 3.00 Hrs.**

**[Max. Marks: 100]**

**PHYSIOLOGY**

**Q.P Code: M2560**

*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Define hemostasis. Describe the intrinsic mechanism of clotting
2. Define cardiac cycle and mention its normal duration. Describe various volume and pressure changes in left ventricle

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Describe the factors affecting spermatogenesis
4. Define absolute & relative refractory period
5. Classify hypoxia with examples.
6. List the movements of small intestine
7. Draw a neat labelled diagram of nephron & give their functions
8. List the functions of thyroid hormones.
9. list the functions of cerebellum
10. List the contraceptive methods for males & females
11. classify various modes of transport across cell membrane
12. List contents of middle ear & its functions

**SHORT NOTES**

**10 X 3 = 30 Marks**

13. Define positive feedback mechanism with example
14. List the contents of middle ear
15. List the hormones influencing menstrual cycle
16. List the effects of sympathetic stimulation on heart
17. List neuroglial cell with their function
18. List the hormones secreted by thyroid gland
19. List the steps involved in urine formation
20. List the functions of gastric juice
21. Mention the factors that shift oxy-Haemoglobin curve to right
22. Define cardiac output with its normal value

\* \* \*