

M.Sc.(Zoology) CBCS Pattern Semester-III  
**PSCZOOT11-4 - Paper-XI Special Group : Animal Physiology Paper-II**  
**(Physiology of Circulation)**

P. Pages : 1

Time : Three Hours



GUG/W/23/11320

Max. Marks : 80

- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Draw diagrams wherever necessary.

1. Describe Anatomy, Histology and nerve innervation of the heart. **16**

**OR**

Write notes on:

- a) Pace maker and specialized conducting fibers. **8**
- b) Blood pressure and factors affecting blood pressure. **8**

2. Write a detail account on cardiac cycle. **16**

**OR**

Write notes on:

- a) Hemodynamics. **8**
- b) Cardiac Failure **8**

3. Describe blood groups & Blood transfusion. **16**

**OR**

Write notes on:

- a) Cellular composition of Blood. **8**
- b) Causes & control of Hypoglycemia. **8**

4. Give and Detail on Cascade of biochemical reactions involved in coagulation of blood. **16**

**OR**

Write notes on:

- a) Transport of CO<sub>2</sub> by blood. **8**
- b) Lymph-composition **8**

5. Attempt to the following. **16**

- a) Neurogenic Heart
- b) Cardiac output
- c) Hyperlipidemia
- d) Globulins

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