

Roll No. \_\_\_\_\_

[Total No. of Pages : 2

**SIVS-192 A-19**  
**B.Sc. IV Semester Degree Examination**  
**ZOOLOGY**  
**(Physiology and Biochemistry)**  
**Paper - Z . 4**

**Time : 3 Hours**

**Maximum Marks : 80**

**Instructions to Candidates:**

- 1) Answer **All** the parts.
- 2) Draw Diagram wherever necessary.

**Part-I**

**I. Answer the following in **one** word or **one** sentence each.**

**(15×1=15)**

- 1) Emulsification.
- 2) External respiration.
- 3) Blood pressure.
- 4) Bioenergetics.
- 5) Excretory Product in birds.
- 6) Myosin.
- 7) Synapse.
- 8) Expand NAD.
- 9) Vitamins.
- 10) Co - enzymes.
- 11) Antigens.
- 12) Sodium Pump.
- 13) Mitral Valve.
- 14) Sarco Lemma.
- 15) Expand ADH.

**Part-II**

- II. A) Write brief answers on any **THREE** of the following. (3×5=15)
- 16) Digestion in Stomach.
  - 17) Functions and deficiencies of Thyroxine.
  - 18) Cell mediated immunity.
  - 19) Contractile Protein.
- B) Write brief Answer on any **TWO** of the following. (2×5=10)
- 20) Phosphorylation.
  - 21) Mechanism of enzyme action.
  - 22) Vitamin C.

**Part-III**

- III. A) Write explanatory note on any **THREE** of the following. (3×10=30)
- 23) Digestion of carbohydrates.
  - 24) Respiratory pigments.
  - 25) Physiology of urine formation.
  - 26) Conduction of Nerve impulse.
- B) Write an explanatory note on any **ONE** of the following. (1×10=10)
- 27) IUB system classification of enzymes.
  - 28) Fat soluble Vitamins.

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