



**PA-003-001642**

Seat No. \_\_\_\_\_

**B. Sc. (Sem. VI) Examination**

**March / April - 2020**

**Zoology : Paper - 602**

***(Physiology, Histology & Micro Techniques)***

***(Old Course)***

**Faculty Code : 003**

**Subject Code : 001642**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

**Instructions :** (1) Illustrate your answer with neat and labeled diagram.

(2) Figures to right side indicate full marks of question.

**1 Give answer of following question : 20**

- (1) \_\_\_\_\_ endocrine gland can store its hormone.
- (2) Give the full name of IFNs.
- (3) Which hormone is secreted by ovarian follicles?
- (4) Which material use for block preparation?
- (5) Which hormone secreted by posterior pituitary gland?
- (6) What is first line defense?
- (7) Which node is activated during arterial systole?
- (8) Define antibody
- (9) Give name of Cu containing respiratory pigment.
- (10) Write a function of insulin hormone
- (11) The remnants of mature follicle after ovulation is known as \_\_\_\_\_

- (12) Write name of cells which are involve in non specific response defense.
- (13) Define innate immunity.
- (14) Give full name of S.A. node
- (15) Give full name of D.P.X.
- (16) What is Systole?
- (17) Define dehydration process in permanent slide preparation.
- (18) The heme portion of hemoglobin contains \_\_\_\_\_ atoms of iron.
- (19) Dealcoholization agents are \_\_\_\_\_
- (20) Tricaspid valve is present between \_\_\_\_\_ and \_\_\_\_\_ in heart.

**2 (A) Write Any **Three** out of Six : **6****

- (1) Write a short note on Chlorocruorin
- (2) Write a note on factors affecting rate of gas exchange
- (3) Write only name of hormones secreted by pineal and thymus gland
- (4) Give location and function of A.V. node
- (5) Describe alcohol as a fixatives
- (6) Make a note on innate immunity

**(B) Write Any **Three** out of Six : **9****

- (1) Describe transport of carbon dioxide
- (2) Write function of muscular tissue
- (3) Write a short note on hormones of anterior pituitary gland
- (4) Describe estrus cycle
- (5) Phono receptor.
- (6) Describe allergy

(C) Write Any **Two** out of Five : **10**

- (1) Explain exchange of gases
- (2) Explain movement of muscle.
- (3) Discuss adrenal gland as an endocrine gland and its hormone.
- (4) Describe menstrual cycle.
- (5) Give details of conduction and regulation of heart beat

**3** (A) Write Any **Three** out of Six : **6**

- (1) Describe Antigen
- (2) Describe Formalin as a fixatives
- (3) Importance of wax in permanent slide preparation
- (4) Describe single staining method.
- (5) Write a brief note on origin of heart
- (6) Discuss effect of exercise on blood pressure

(B) Write Any **Three** out of Six : **9**

- (1) Structure and function of different type of antibody :  
(Any two)
- (2) Describe Double staining process.
- (3) Explain in detail howell's theory for blood clotting
- (4) Describe gustro receptor

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