



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) Dealkoholization agents are _____

(20) Tricuspid 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
