



BBG-003-001642 Seat No. _____

Third Year B. Sc. (Sem. VI) (CBCS) Examination

July - 2021

Zoology : Z - 602

(Physiology, Histology and Micro Techniques)

Faculty Code : 003

Subject Code : 001642

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

[Total Marks : 70

Instructions :

- (1) Illustrate your answers with neat and labeled diagram.
- (2) Figures to the right side indicate full marks for the question.

1 Answer the following questions : **20**

- (1) Define Antigen.
- (2) Give full name of S.A. Node.
- (3) What is Systole ?
- (4) Give full name of DPX.
- (5) Which ion is involved in coagulation of Blood ?
- (6) Eye ball is made up of how many layers ?
- (7) Relaxin hormone is release from _____.
- (8) Give name of hormone secreted by thyroid hormone.
- (9) Give the name of cytoplasmic stain.
- (10) Right atrium receives blood from _____.
- (11) What is stain ?
- (12) Function of titin muscle.
- (13) Give name of hormone of testies.
- (14) What is the use of fixative ?
- (15) Write name of primary taste sensation of gastro receptor.
- (16) What is blood pressure ?
- (17) Which immunoglobulin cross the placenta.
- (18) Addison's disease is caused by which hormone ?
- (19) Which anticoagulant present in conversion of prothrombin to thrombin ?
- (20) How much time taken for the contraction of heart chamber ?

- 2 (a) Write any three out of six. 6
- (1) Describe any two fixatives.
 - (2) Describe endocrine function of pancreas.
 - (3) Iron containing respiratory pigments.
 - (4) Innate immunity in brief.
 - (5) Describe Haematoxyline.
 - (6) Block preparation method in brief.
- (b) Answer any three out of six : 9
- (1) Describe Dealcification process.
 - (2) Explain Oxygen transportation.
 - (3) Explain Histological structure of Ovary.
 - (4) Double stain techniques.
 - (5) Photo receptor.
 - (6) Regulatory protein of muscles.
- (c) Answer any two out of five : 10
- (1) Describe immunoglobulin.
 - (2) Menstrual cycle.
 - (3) Cardiac Cycle.
 - (4) Muscle Contraction.
 - (5) Histological structure and function of Adrenal gland.
- 3 (a) Answer any three out of six. 6
- (1) Explain Sectioning process.
 - (2) Give structure of Gustro receptor.
 - (3) Describe estrus cycle in brief.
 - (4) Explain ECG.
 - (5) Carnoy's fluid.
 - (6) Single staining technique.
- (b) Answer any three out of six. 9
- (1) Describe structure of sperm.
 - (2) Regulation of heart beat.
 - (3) Adaptive immunity.
 - (4) Transportation of CO₂.
 - (5) Explain Allergy.
 - (6) Give structure of photo receptor.
- (c) Answer any two out of five. 10
- (1) Describe physiology of movement in detail.
 - (2) Describe antigen – antibody reaction.
 - (3) Structure of Heart.
 - (4) Explain different types of immunoglobulin.
 - (5) Gastroreceptor in detail.