



DI-003-001642

Seat No. _____

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

March – 2022

Z - 602 : Zoology

(Physiology, Histology and Micro Techniques)

(Old Course)

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 questions.

1 Answer the following Questions :

20

- (1) Define antigen.
- (2) What is Systole?
- (3) Eye ball is made up of _____ layers.
- (4) Which ion is involved in coagulation of Blood?
- (5) Which material is use for block preparation?
- (6) Give full form of S. A. node.
- (7) Give full form of D.P.X.
- (8) Give name of hormone secreted by thyroid gland.
- (9) Define Microtomy.
- (10) What is stain?
- (11) Write only name of primary taste sensation.
- (12) Function of parathyroid hormone.
- (13) Function of titin muscle.
- (14) Addison's disease is caused by which hormone?
- (15) How many valves present in Heart ?
- (16) Relaxin hormone is released from _____

- (17) What is use of Fixative?
- (18) Left atrium receives blood from _____
- (19) Give name of cytoplasmic stain.
- (20) Define antibody.

- 2** (A) Write any **three** out of six : **6**
- (1) Iron containing respiratory pigments.
 - (2) Describe endocrine functions of pancreas.
 - (3) Innate immunity in brief.
 - (4) Give name of pancreatic hormone.
 - (5) Explain extrinsic pathway for blood clotting in brief.
 - (6) Pulse pressure.
- (B) Answer any **three** out of six : **9**
- (1) Explain Oxygen transportation.
 - (2) Give structure of photoreceptor.
 - (3) Describe dealcoholization process.
 - (4) Regulatory protein of muscles.
 - (5) Double staining technique.
 - (6) Explain histological structure of ovary.
- (C) Answer any **two** out of five : **10**
- (1) Describe ECG in detail.
 - (2) Explain conduction and regulation of heart beat.
 - (3) Menstrual cycle.
 - (4) Describe immunoglobulin.
 - (5) Histological structure and function of pituitary gland.
- 3** (A) Answer any **three** out of six : **6**
- (1) Carnoy's fluid.
 - (2) Haematoxylene.
 - (3) Single staining technique.
 - (4) Explain sectioning process in brief.
 - (5) Give structure of Gusto receptor.
 - (6) Give name of ovarian hoemone.

(B) Answer any **three** out of six : **9**

- (1) Explain CO₂ transportation.
- (2) Describe adaptive immunity.
- (3) Explain allergy.
- (4) Give structure of phonoreceptor.
- (5) Describe structure of sperm.
- (6) Best and Teylor theory.

(C) Answer any **two** out of five : **10**

- (1) Describe physiology of movement with diagram.
 - (2) Describe cardiac cycle.
 - (3) Estrus cycle.
 - (4) Histological Structure and functions of Adrenal gland.
 - (5) Describe antigen-antibody reaction.
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