



NAN-003-001642 Seat No. _____

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

March / April - 2017

Z - 602 : Zoology

(Physiology, Histology, Microtechniques)

(New Course)

Faculty Code : 003

Subject Code : 001642

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

[Total Marks : 70

- Instructions :** (1) Illustrate your answer with neat and labelled diagram.
- (2) Figures to the right side indicate full marks of the questions.

- 1** Write Answer of following question in short : **20**
- (1) Define Hormone.
 - (2) What is cardiac output (Co) ?
 - (3) Define Microtomy.
 - (4) What is hypersensitivity ?
 - (5) Name of Valves present in Heart.
 - (6) Give any two non-nitrogenous substance present in muscle.
 - (7) Which anticoagulant prevent conversion of prothrombin to thrombin.
 - (8) Heart rate affected by which hormone.

- (9) Give the only name of 2 Iron containing pigment.
- (10) Which node is activated during arterial systole.
- (11) Which immunoglobulin can cross the placenta during pregnancy?
- (12) Which waves is related to depolarization of ventricle ?
- (13) Which hormone is secreted by follicular cells of ovary ?
- (14) Which kind of heart beat exhibits by vertebrate ?
- (15) Eye ball is made up of which layers.
- (16) Speed of the clot retention is directly promotional to the number of _____ present in blood.
- (17) What is poly oestrus cycle give the example.
- (18) Factor VII is synthesized by liver in the presence of which Vitamin.
- (19) Addison's diseases caused by which hormone.
- (20) Full name of D.P.X.

2 (a) Write any **Three** out of Six :

6

- (1) Function of Haemoglobin.
- (2) Eosine.
- (3) Function of autorhythmic Fibres.
- (4) Endocrine function of pancreas.
- (5) Importance of Alcohol and Xylene in staining Technique.
- (6) Bouin's fluid.

- (b) Write any **Three** out of Six : **9**
- (1) Gastro receptor'.
 - (2) Innate immunity.
 - (3) Best and Taylor's theory.
 - (4) Double staining technique.
 - (5) Blood pressure.
 - (6) Male gonadial hormone and its functions.
- (c) Write any Two out of Five : **10**
- (1) Histological structure and function of Adrenal gland.
 - (2) Photoreceptor.
 - (3) Muscular contraction.
 - (4) Transportation of Gases.
 - (5) Menstrual Cycle.
- 3** (a) Write any **Three** out of Six : **6**
- (1) Female gonadial hormone.
 - (2) Carnoy's fluid.
 - (3) Haematoxylin
 - (4) ECG.
 - (5) Antigen.
 - (6) Single stain method.
- (b) Write any **Three** out of Six : **9**
- (1) Oestrus cycle.
 - (2) Phono receptor.
 - (3) Cardiac Cycle.

- (4) Howel's theory of blood clotting
- (5) Position and Function of S.A. node and A.V. node.
- (6) Structure of regulatory protein of the muscle.

(c) Write any **Two** out of Five : **10**

- (1) Mechanism of blood clotting.
 - (2) Allergy.
 - (3) Structure of Heart.
 - (4) Pituitary Gland.
 - (5) Immunoglobulin.
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