



JB-003-001642

Seat No. _____

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

August - 2019

Zoology : Z - 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 answers with neat and labelled diagrams.
 - (2) Figures to right side indicate full marks of question.

1 Answer the following questions : 20

- (1) Give the name of stains used to stain cytoplasm.
- (2) Right atrium receives blood from _____.
- (3) What is dehydration process in permanent slide preparation ?
- (4) Define antigen.
- (5) Give name of hormone secreted by thyroid gland.
- (6) Define blood pressure.
- (7) Give full name of D.P.X.
- (8) At which place in our body purkinje fibers are present ?
- (9) What is the use of stain in preparation of permanent slide ?
- (10) Relaxin hormone is released from _____.
- (11) Give name of hormone secreted by testis.
- (12) _____ Immunoglobulin can cross the placenta.
- (13) Eye ball is made up of _____ layers.
- (14) Which hormone is secreted by ovarian follicles ?
- (15) Which node is activated during arterial diastole ?
- (16) Which material is used for block preparation ?
- (17) Give name of Cu containing respiratory pigment.
- (18) Define antibody.
- (19) _____ Color develops by Heamoglobin on oxygenation state.
- (20) Give the name of hormone responsible for increased heart rate.

- 2 (a) Answer any **three** out of six : 6
- (1) Describe endocrine function of pancreas.
 - (2) Describe alcohol as a fixative.
 - (3) Explain block preparation in brief.
 - (4) Give importance of alcohol and xylene.
 - (5) Describe haematoxyline as a stain.
 - (6) Explain in brief intrinsic pathway.
- (b) Answer any **three** out of six : 9
- (1) Explain E.C.G.
 - (2) Describe respiratory pigment.
 - (3) Describe histological structure of pituitary gland.
 - (4) Explain different types of immunoglobulin.
 - (5) Give details of O₂ transport.
 - (6) Give location and function of S.A. node and A.V. node.
- (c) Answer any **two** out of five : 10
- (1) Describe histological structure of testis.
 - (2) Give details of conduction and regulation of heart beat.
 - (3) Give details of CO₂ transport.
 - (4) Give structure of gastrosensor.
 - (5) Cardiac cycle.
- 3 (a) Answer any **three** out of six : 6
- (1) Eosin as a stain.
 - (2) Describe Antigen.
 - (3) Fixation process in brief.
 - (4) Importance of dehydration in permanent slide preparation.
 - (5) Give name of ovarian hormone.
 - (6) Make a list of hormone secreted by pancreas.
- (b) Answer any **three** out of six : 9
- (1) Describe alcoholization process.
 - (2) Explain movement of muscle.
 - (3) Describe double staining method.
 - (4) Explain blood pressure.
 - (5) Describe menstrual cycle.
 - (6) Give histological structure of Ovary.
- (c) Answer any **two** out of five : 10
- (1) Describe adaptive immunity.
 - (2) Give histological structure of Adrenal.
 - (3) Explain structure of heart.
 - (4) Describe phonoreceptor.
 - (5) Describe estrus cycle.