



**PG-003-001642**

Seat No. \_\_\_\_\_

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

**July - 2018**

**Zoology : Paper - Z - 602**

*(Physiology, Histology And Micro Techniques)*

*(New 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 diagrams.  
(2) Figures to the right side indicate full marks of question

**1 Answer for the following questions : 20**

- (1) Give the name of stains use 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 use of stain in preparation of permanent slide?
- (10) Relaxin hormone is release from \_\_\_\_\_
- (11) How many valves are present in heart?
- (12) Give the name of ions use in movement of muscle.
- (13) Give full name of S. A. node
- (14) What is Systole?

- (15) Give the name of hormone responsible for increased heart rate
- (16) Which material use for block preparation.
- (17) \_\_\_\_\_ Color develop by Heamocyanine on oxygenation state.
- (18) Which node is activated during Arterial diastole?
- (19) Which ion is involved in coagulation of blood?
- (20) Eye ball is made up of \_\_\_\_\_ layers.

2 (A) Write any **three** out of **six** : **6**

- (1) Describe Haematoxyline as a stain
- (2) Explain extrinsic pathway for blood clotting in brief.
- (3) Explain block preparation process in brief.
- (4) Innate immunity Explain in brief.
- (5) Describe any two fixatives
- (6) Give name of pancreatic hormone.

(B) Write any **two** out of **six** : **9**

- (1) Describe Dealcoholization process
- (2) Explain histological structure of ovary
- (3) Give structure of photoreceptor
- (4) Explain O<sub>2</sub> transportation
- (5) Draw a neat and clean labeled diagram of mammalian sperm
- (6) List a hormone of pituitary gland and give their function : (Any three)

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

- (1) Explain double staining process in detail
- (2) Give histological structure of adrenal gland with diagram
- (3) Describe E.C.G. in detail
- (4) Explain different type of immunoglobulin
- (5) Explain Conduction and regulation of heart beat.

- 3 (A) Write any **three** out of six : **6**
- (1) Describe Eosin as a stain
  - (2) Make a list of hormone secreted by adrenal gland : (Any two)
  - (3) Explain sectioning process in brief.
  - (4) Give Structure of Gustro receptor
  - (5) Describe estrus cycle
  - (6) Give name of ovarian hormone.
- (B) Write any **two** out of six : **9**
- (1) Explain Respiratory pigment.
  - (2) Describe any two fixatives
  - (3) Explain CO<sub>2</sub> transportation
  - (4) Describe adaptive immunity
  - (5) Explain allergy
  - (6) Give structure of phonoreceptor.
- (C) Write any **two** out of five : **10**
- (1) Explain menstrual cycle in detail.
  - (2) Describe physiology of movement with diagram.
  - (3) Describe Cardiac cycle
  - (4) Describe Antigen- Antibody reaction.
  - (5) Explain single staining process in detail
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