



DCJ-003-1016022

Seat No. _____

B. Sc. (Sem. VI) (W.E.F. 2016) Examination

July - 2022

Zoology : Z-602

*(Cardiovascular System, Respiration & Muscular System,
Endocrinology & Reproduction, Immunology &
Sense Organ & Histology)
(Old Course)*

Faculty Code : 003

Subject Code : 1016022

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

[Total Marks : 70

Instructions : (1) Illustrate your answer with neat and clean labelled diagram.
(2) Figure on right side indicate full marks of question.

- 1 (a) Give answer of following question : 4
- (1) Write a full name of SA node.
 - (2) Write a normal range of Blood pressure.
 - (3) Define blood clotting
 - (4) Write a function of SL valve.
- (b) Write any one out of two : 2
- (1) Describe extrinsic pathway of blood clotting
 - (2) Write a note on systolic blood pressure
- (c) Write any one out of two : 3
- (1) Give description of Conduction and regulation of heart beat
 - (2) Write a note on origin of heart.
- (d) Write any one out of two : 5
- (1) Write a brief note on intrinsic pathway of blood clotting
 - (2) Give description of structure of heart.

- 2** (a) Give answer of following question : **4**
- (1) Define respiratory pigment
 - (2) Haemocyanin contains _____ metal as a non-protein part.
 - (3) In deoxygenated state chlorocruorin has _____ in color.
 - (4) CO_2 is transported in blood in the form of _____.
- (b) Write any one out of two : **2**
- (1) Write a short note on haemoerythrin
 - (2) Write function of muscular tissue
- (c) Write any one out of two : **3**
- (1) Describe exchange of O_2 .
 - (2) Write a note on haemoglobin.
- (d) Write any one out of two : **5**
- (1) Explain molecular structure of sarcomere
 - (2) Explain transport of gases
- 3** (a) Give answer of following question : **4**
- (1) Write a full name of FSH
 - (2) Nor epinephrine hormone also known as _____
 - (3) Write name hormone secreted by pineal gland.
 - (4) What is hormone?
- (b) Write any one out of two : **2**
- (1) Write a note on classification of hormone.
 - (2) Write a short note on secreted by testis.
- (c) Write any one out of two : **3**
- (1) Write a short note on secreted by pancreas
 - (2) Describe any two phases of menstrual cycle

- (d) Write any one out of two : 5
- (1) Write a short note on hormones of anterior pituitary gland
 - (2) Describe estrus cycle.
- 4 (a) Give answer of following question : 4
- (1) Write a name of different type of immunoglobulin
 - (2) What is Innate immunity?
 - (3) Write the name of primary taste
 - (4) Define Antibody.
- (b) Write any one out of two : 2
- (1) Write a note on innate immunity.
 - (2) Draw only a labeled diagram of gustato receptor.
- (c) Write any one out of two : 3
- (1) Make a note on photo receptor.
 - (2) Make a brief note on Structure of immunoglobulin.
- (d) Write any one out of two : 5
- (1) Explain in detailed structure of phono receptor.
 - (2) Describe Adaptive immunity.
- 5 (a) Give answer of following question : 4
- (1) What is histology?
 - (2) Define Dealcoholization
 - (3) Write a use of D.P.X.
 - (4) Write a name of nuclear stains.
- (b) Write any one out of two : 2
- (1) Discuss fixation
 - (2) Brief note on Dehydration process

- (c) Write any one out of two **3**
- (1) Explain double staining process
 - (2) Describe block preparation process.
- (d) Write any one out of two **5**
- (1) Describe Histological structure of adrenal gland.
 - (2) Make a note on different stains (any five)
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