



DCI-003-1016021

Seat No. _____

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

July - 2022

Zoology : Z-601

**(Functional Anatomy of Chordate & Comparative Study)
(Old Course)**

Faculty Code : 003

Subject Code : 1016021

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

[Total Marks : 70

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

- 1 (A) Objective type questions. 4
(1) Jacobson organ are present in the class...
(2) Define : Hermaphrodite
(3) Define : any two characteristics of class urochordate
(4) Define : Acraniata
(B) Answer in brief : (any **one** out of two) 2
(1) Classify with reason ; Hemmer headed shark
(2) Describe : characteristics of class cephalochordata
(C) Answer in detail : (any **one** out of two) 3
(1) Difference between Pieces and Tetrapod.
(2) Describe Class osteichthyes with suitable examples.
(D) Answer in detail : (any **one** out of two) 5
(1) Describe Amphibia with suitable examples.
(2) Classify with reason: Hemidactylus and Eagle.

- 2** (A) Objective type question. **4**
- (1) Write the name of the organ of male rat reproductive system.
 - (2) Function of pecten.
 - (3) Scientific name: Pigeon.
 - (4) How is external jugular vein formed?
- (B) Answer in brief : (any **one** out of two) **2**
- (1) Short note on external feature of pigeon. (without diagram).
 - (2) Describe blood of rat.
- (C) Answer in detail : (any **one** out of two) **3**
- (1) Describe : digestive system of rat.
 - (2) Describe : male urinogenital system in pigeon.
- (D) Answer in detail : (any one out of two) **5**
- (1) Describe : Arterial system in pigeon.
 - (2) Describe : Venous system in rat.
- 3** (A) Objective type question. **4**
- (1) Define : Parental care.
 - (2) What is dipnoi?
 - (3) Write a name of different fin type.
 - (4) Define : Aestivation.
- (B) Answer in brief : (any one out of two) **2**
- (1) Note : Affinity in urochordata.
 - (2) Write a note on Hibernation.
- (C) Answer in detail : (any one out of two) **3**
- (1) Describe : Affinity of dipnoi
 - (2) Describe : Types of fin in fish.
- (D) Answer in detail : (any one out of two) **5**
- (1) Describe : Parental care in fish.
 - (2) Explain : Air bladder in fish.

- 4 (A) Objective type question. 4
- (1) Define : Claws.
 - (2) Function of beaks.
 - (3) Define : counter feathers.
 - (4) Any two name of egg lying mammals.
- (B) Answer in brief : (any **one** out of two). 2
- (1) Short note on sphenodon (without diagram)
 - (2) Define : primates
- (C) Answer in detail : (any **one** out of two) 3
- (1) Describe : Migration in birds.
 - (2) Describe : Pouched mammals (any two)
- (D) Answer in detail : (any one out of two) 5
- (1) Describe: types of feathers in bird.
 - (2) Explain: egg lying mammals.
-
- 5 (A) Objective type question. 4
- (1) Define: dentition formula in dog.
 - (2) What is the function of nephron?
 - (3) Function of the gland in digestive system.
 - (4) Define: dendrite.
- (B) Answer in brief : (any **one** out of two) 2
- (1) Describe: Excretory system in fish.
 - (2) Describe : Dentition formula.
- (C) Answer in detail : (any one out of two) 3
- (1) Describe : Synapse and neuroglia.
 - (2) Describe: Digestive system in mammals. (any two)
- (D) Answer in detail : (any one out of two) 5
- (1) Define : Types of teeth.
 - (2) Define : Comparative account of brain (any two).