



**BBF-003-1016021**

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

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

**July - 2021**

**Zoology : Z - 601**

*(Functional Anatomy of Chordates & Comparative Study)*  
*(New Course)*

**Faculty Code : 003**

**Subject Code : 1016021**

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

[Total Marks : 70

- Instructions :**
- (1) Illustrate your answers with neat and labelled diagrams.
  - (2) Figure to the right side indicates full marks of the question.
  - (3) Write any 5 questions out of 10 (each question carries equal marks)

- 1 (a) Give answer to the following questions : 4
    - (1) Give an example of class Theliacea.
    - (2) Myxine is representative of \_\_\_\_\_ order.
    - (3) Branchiostoma belongs to \_\_\_\_\_ class.
    - (4) Give any one example of sub class selachii.
  - (b) Give answer in short : 2  
Give general characters of class cyclostoma.
  - (c) Give answer in detail. 3  
Classify Pisces with characters and examples.
  - (d) Write a note on : 5  
Give classification of Amphibians up to order with suitable examples.
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- 2 (a) Give answer to the following questions. 4
    - (1) Oikopleura belongs to \_\_\_\_\_ class.
    - (2) Give an example of limbless Amphibians.
    - (3) Class Aves is divided into \_\_\_\_\_ and \_\_\_\_\_ sub class.
    - (4) Give an example of holocephali.

- (b) Give answer in short. 2  
Give distinctive characters of Aves.
- (c) Give answer in detail. 3  
Give silent characters and classification of Metatheria.
- (d) Write a note on. 5  
Classify Reptilian up to order giving important characters and suitable examples.
- 3** (a) Give answer to the following questions. 4  
(1) Name the flight muscles in pigeon.  
(2) Give location of intestinal glands in pigeon.  
(3) Function of Cowper's gland Rat.  
(4) \_\_\_\_\_ node is also known as pace maker of the heart.
- (b) Give answer in short. 2  
Describe only digestive glands in Rat.
- (c) Give answer to the following questions. 3  
Draw and labelled Dorsal view of Brain in Rat.
- (d) Write a note on : 5  
Describe Arterial system in pigeon.
- 4** (a) Give answer to the following questions. 4  
(1) Function of Epididymis in Rat.  
(2) \_\_\_\_\_ valve also known as Mitral valve.  
(3) Function of Gizzard in pigeon.  
(4) Preen gland is also known as \_\_\_\_\_ gland.
- (b) Give answer in short. 2  
Pecten in pigeon.
- (c) Give answer to the following question. 3  
Air Sac in pigeon.
- (d) Write a note on. 5  
Describe male urogenital system in Rat.
- 5** (a) Give answer to the following questions. 4  
(1) Define Astivation.  
(2) What is Mermaid's purses ?  
(3) \_\_\_\_\_ Dipnoi fish found in South America.  
(4) Define physostomus air bladder.

- (b) Give answer in short. 2  
Parental care in stickleback.
- (c) Give answer in detail. 3  
Types of fins in fish.
- (d) Write a note on. 5  
Parental care in Amphibians.
- 6** (a) Give answer to the following questions. 4  
(1) Neoceratodus found in \_\_\_\_\_.  
(2) Define Hibernation.  
(3) Which type of parental care shows by Arius ?  
(4) Define physoclitus air bladder.
- (b) Give answer in short. 2  
Air bladder in amia and Protopterus fish. (any two)
- (c) Give answer in detail. 3  
Neotony.
- (d) Write a note on : 5  
Affinities of urochodata.
- 7** (a) Give answer to the following questions. 4  
(1) Give an example of Marsupials.  
(2) Which type of beak found in Pelican ?  
(3) Define diapsida skull.  
(4) Give an example of Flying mammals.
- (b) Give answer in short. 2  
Wood-chiselling and Mud-probing type of beak.
- (c) Give answer in detail. 3  
Sphenodon.
- (d) Write a note on. 5  
Migration in Birds.
- 8** (a) Give answer to the following questions. 4  
(1) Define Anapsida skull.  
(2) Give an example of monotremes.  
(3) Reptorial type of feet found in \_\_\_\_\_.  
(4) \_\_\_\_\_ and \_\_\_\_\_ type of beak found in vulture.

- (b) Give answer in short. 2  
Cursorial and Clinging type of claws.
- (c) Give answer in detail. 3  
Types of feathers in Birds.
- (d) Write a note on. 5  
Describe Aquatic mammals.
- 9** (a) Give answer to the following questions. 4  
(1) Define Thecodont teeth.  
(2) What is mesonephric kidney ?  
(3) Dental formula of Horse.  
(4) Which type of teeth develops in Platypus and Marsupials ?
- (b) Give answer to the question. 2  
Describe Acrodont teeth.
- (c) Give answer in detail. 3  
Give comparative account of stomach in Elasmobranch and Aves.
- (d) Write a note on. 5  
Give comparative study of cyclostome and mammalian excretory system.
- 10** (a) Give answer to the following questions. 4  
(1) Detail formula of Dog.  
(2) What is meta nephric kidney ?  
(3) Which kind of teeth found in elephant ?  
(4) Polyphyodont is found in \_\_\_\_\_.
- (b) Give answer to the question. 2  
Diphyodont teeth.
- (c) Give answer in detail. 3  
Give comparative account of Digestive glands in protochordates and mammals.
- (d) Write a note on. 5  
Give comparative study of pisces and Reptiles brain (only dorsal view)
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