



BBF-003-001641 Seat No. _____

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

June / July – 2021

**Z - 601 : Functional Anatomy of Chordates &
Comparative
(Old Course)**

Faculty Code : 003

Subject Code : 001641

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

[Total Marks : 70

- Instructions :** (1) Draw neat and labeled diagram wherever necessary.
- (2) Numbers to the right side indicate full marks of the questions.

1 Give the answer of following questions : **20**

- (1) Give example of class-Leptocardii.
- (2) Any two important characters of chordate animal.
- (3) Which animal is the known as aliving fossil?
- (4) Which animal is connecting link between class reptiles and aves?
- (5) Which epidermal gland is found in a tail region of birds?
- (6) What is retrogressive metamorphosis in animal kingdom?
- (7) Type of caudal Fin in Elasmobranch.
- (8) How many chambers are there in the heart of Mammalia?
- (9) Define anadromous migration in fish.
- (10) Gives two animals name of carnivore.
- (11) Diencephalon is the part of _____ brain.

- (12) Function of Gizzard in birds.
- (13) Dental formula of Dog.
- (14) Smallest arteries are connected to smallest veins by _____
- (15) 2-chambered single circuit venous hearts are found in _____
- (16) Scientific name of Rat.
- (17) How many air sacs are in a pigeon?
- (18) Which veins of Rat is collect blood from the lumber region ?
- (19) Some birds shows the most familiar migration from north to south and vice versa is known as _____
- (20) Which type of kidney present in birds?

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

- (1) Define indirect parental care in Amphibia with one example.
- (2) Physoclitus feathers.
- (3) Define Chiroptera with one example.
- (4) Sweat gland.
- (5) Define pouched mammals with one example.
- (6) Dental formula - Goat and Pig.

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

- (1) Anadromous migration
- (2) Short note on Carnivore-animal
- (3) Seasonal Migration in birds.
- (4) Explain diapsida skull.
- (5) Function of airbladder.
- (6) Affinities-dipnoi with Amphibia.

- (C) Write any **two** out of five : **10**
- (1) Venous system of Rat.
 - (2) In fishes - Accessory respiratory organ.
 - (3) Reproductive system of pigeon.
 - (4) Comparative account heart : Reptile and aves.
 - (5) In primates - affinities and systematic position.
- 3** (A) Write any **three** out of six : **6**
- (1) Explain Neotony in Amphibia.
 - (2) Parental care in fishes any one example
 - (3) Describe cetacean mammals with example.
 - (4) Describe scent gland.
 - (5) Hibernation in Amphibia
 - (6) Explain Aestivation in Amphibia.
- (B) Write any **three** out of six : **9**
- (1) Dorsal view - Brain of Rat.
 - (2) Flightless bird.
 - (3) Living fossil - Sphenodon.
 - (4) Explain egg laying mammals.
 - (5) Anapsida skull.
 - (6) Notes on affinities of Urochordata
- (C) Write any **two** out of five : **10**
- (1) Arterial system in pigeon
 - (2) Internal structure of heart in rat.
 - (3) Comparative aortic arches in fish and aves.
 - (4) Comparative account Kidney : aves and mammals.
 - (5) Digestive system of rat.