



MAL-003-001641

Seat No. _____

B. Sc. (Zoology) (Sem. VI) (CBCS) Examination
March / April - 2018
Functional Anatomy of Chordates & Comparative
(New Course)

Faculty Code : 003

Subject Code : 001641

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

[Total Marks : 70

- Instructions :** (1) Illustrate your answers with neat and labelled diagram.
(2) Figures to the right side indicate full marks for the question.

1 Answer the following questions : **20**

- (1) Which type of caudal fin found in elasmobranch ?
- (2) Axotal larva is the larva of _____.
- (3) Which type of skull is the characteristic of turtles ?
- (4) Archaeopteryx is the connective link between class _____.
- (5) Which type of kidney found in pigeon ?
- (6) Cheetah are included in Order _____.
- (7) Two-chambered, single circuit venous heart is found in _____.
- (8) Anadromous migration refers to movement of fishes from _____.
- (9) The best example of Neotony is _____.
- (10) Sphenodon is example of _____.
- (11) Pouched mammals belongs to which order.
- (12) Which type of mammals include in order choropectera ?
- (13) Dental formula of goat is _____.
- (14) How many air sacs are found in pigeon ?

- (15) How many chambers are there in the heart of Pisces?
- (16) Bats are included in order _____.
- (17) Secretion of which gland is responsible to attract members of opposite sex ?
- (18) Which is the best example of catadromous migration ?
- (19) How many pairs of aortic arches present during embryonic development in birds ?
- (20) Give any two examples of ratitae.

- 2** (a) Write any three out of six. **6**
- (1) Hybernation in Amphibia.
 - (2) Parapsid skull in reptiles.
 - (3) Short note on Uropygial gland.
 - (4) Give dental formula of pig.
 - (5) Types of fins of fishes.
 - (6) Neoteny.
- (b) Answer any three out of six. **9**
- (1) Brain of pigeon.
 - (2) Affinities of Dipnoi
 - (3) Archeopterous
 - (4) Write a short note on marsupials
 - (5) Physostomous air bladder
 - (6) Short note on primates
- (c) Answer any two out of five : **10**
- (1) Affinities in Urochordata.
 - (2) Comparative aortic arch in fish and aves.
 - (3) Arterial system of pigeon
 - (4) Describe digestive system of rat
 - (5) Sphenodon

- 3** (a) Answer any three out of six : **6**
- (1) Thecodont and selenodont.
 - (2) Short note on chiroptera.
 - (3) Any two mode of adaptation in migration.
 - (4) Functions of air bladder in fishes.
 - (5) Pactene in pegion.
 - (6) Dental formula of horse.
- (b) Answer any three out of six : **9**
- (1) Sebaceous gland and poisons gland scent gland in vertebrates.
 - (2) Kinds of migration.
 - (3) Brain in fishes.
 - (4) Synapsid skull in reptiles.
 - (5) Flying mammals.
 - (6) Flightless Birds.
- (c) Answer any two out of five : **10**
- (1) Migration in birds.
 - (2) Origin and evolution of brain in vertebrate.
 - (3) Male reproductive system pegion.
 - (4) Pouched mammals.
 - (5) Comparative study of Heart in Reptiles and Aves.
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