



PF-003-001641

Seat No. _____

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

July - 2018

Zoology : Paper - Z-601

(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 diagrams.
(2) Figures to the right indicate full marks of the question.

- 1 Write Answer of following question in short : **20**
- (1) Define chordata.
 - (2) Give only name of the feathers which are found in pigeon.
 - (3) What is amphidromous type migration.
 - (4) How many types of direct parental care are seen in amphibians. (only names).
 - (5) Function of restiform body in brain.
 - (6) Name the system which is connecting link between receptors, central neural system and organs.
 - (7) In which mammals hind limbs are absent.
 - (8) Define estivation.
 - (9) Dental formula of Horse.
 - (10) Write the position of pecten in pigeon.
 - (11) Urochordata divided into how many class.

- (12) Name the cutaneous glands present in Birds.
- (13) Neoceratodus and Protopterus are also known as _____ & _____
- (14) Which type of skull palates present in ratitae.
- (15) Identify dental formula $3131/3121 = 30$.
- (16) Define physoclistous air bladder.
- (17) Write only name of teeth according to its attachment.
- (18) Pigeon milk produced in which organ.
- (19) The reflector of luminescent glands is made up of which substance.
- (20) Which gland is also known as poisonous gland in amphibia.

- 2** (A) Write any **Three** out of Six : **6**
- (1) Anadromous migration.
 - (2) Thecodont.
 - (3) Homocercal caudal fin.
 - (4) Function of Air bladder.
 - (5) Classify Apoda with one example.
 - (6) Sebaceous and scent gland.
- (B) Write any **Three** out of Six : **9**
- (1) Describe Monotremes with one example.
 - (2) Anapsida skull.
 - (3) Neotony.
 - (4) Structure of air bladder.
 - (5) Kinds of migration.
 - (6) Sphenodon.
- (C) Write any **Two** out of Five : **10**
- (1) Affinities of dipnoi.
 - (2) Comparative aortic arch in amphibian and aves.
 - (3) Aquatic mammals.
 - (4) Arterial system in pigeon.
 - (5) Male urinogenital system of rat.

- 3 (A) Write any **Three** out of Six : **6**
- (1) Types of fin in fish.
 - (2) Any two mode of flight in migration.
 - (3) Catadromous migration.
 - (4) Selenodont.
 - (5) Hibernation in amphibia.
 - (6) Classification of Bat & rhesus monkey.
- (B) Write any **Three** out of Six : **9**
- (1) Indirect parental care in amphibia.
 - (2) Physostomous air bladder.
 - (3) Archeopteryx.
 - (4) Diapsida skull.
 - (5) Air sac in pigeon.
 - (6) Affinities in urochordata.
- (C) Write any **Two** out of Five : **10**
- (1) Digestive system of Rat.
 - (2) Comparison of pieces & mammalian brain.
 - (3) Flightless Bird:
 - (4) Pouched mammals.
 - (5) Comparative study of Heart in reptiles and aves.
-