

**B.Sc. Semester - 5 (Remedial) (CBCS) Examination****March/April-2024 (NEW COURSE)****Functional Anatomy of Chordates, Systematic, Forms & Functions and  
Comparative Anatomy(Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
  2. Figures to the right indicate marks.
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- Que.1(A) Answer the following questions. (Any one out of two) (07)
- 1) Classify super class pisces up to class with suitable examples.
  - 2) Classify class reptiles up to order with suitable examples.
- Que.1(B) Answer the following questions. (Any one out of two) (04)
- 1) Classify class Amphibia up to order.
  - 2) Classify class mammals up to order.
- Que.1(C) Answer the following questions. (Any three out of five) (03)
- 1) Salpa belongs to sub phylum.....
  - 2) Which type of scales is found in Chondrichthyes?.....
  - 3) Absence of Exoskeleton is the peculiar character of Class.....
  - 4) Aves having ..... chambered heart.
  - 5) Chimpanzee belongs to Class ..... and Order .....
- Que.2(A) Answer the following questions. (Any one out of two) (07)
- 1) Describe digestive system of Scoliodon.
  - 2) Describe Artrial system of pigeon.
- Que.2(B) Answer the following questions. (Any one out of two) (04)
- 1) List out the name of 5<sup>th</sup>, 7<sup>th</sup>, 9<sup>th</sup> & 10<sup>th</sup> cranial nerves of scoliodon.
  - 2) Sketch and label: Digestive system of pigeon.
- Que.2(C) Answer the following questions. (Any three out of five) (03)
- 1) Scientific name of scoliodon is.....
  - 2) In Scoliodon which artery carries blood to pectoral fins?
  - 3) In Scoliodon scroll valve serves to.....
  - 4) Jaws in *Columba livia* are covered by.....
  - 5) In pigeon which artery supplies blood to small intestine .....
- Que.3(A) Answer the following questions. (Any one out of two) (07)
- 1) Describe types, structure, and function of air bladder in Fishes.
  - 2) Give a general account of Dipnoi in detail.
- Que.3(B) Answer the following questions. (Any one out of two) (04)
- 1) Write a short note on Caudal fins in fishes.
  - 2) Write a short note on Neoteny.
- Que.3(C) Answer the following questions. (Any three out of five) (03)
- 1) List out the names of dipnoi
  - 2) In structure of air-bladder the wall of anterior chamber contains a compact mass of interlacing fine capillaries called .....
  - 3) Most primitive type of caudal fin is called as .....
  - 4) During parental care in fishes which male carries fertilized eggs in the buccal cavity ?
  - 5) Which hormone is responsible for the neoteny during metamorphosis?

- Que.4(A) Answer the following questions. (Any one out of two) (07)
- 1) Give a general account of temporal fossae and classification of Reptiles according to it.
  - 2) Give a general account of dentition in mammals.
- Que.4(B) Answer the following questions. (Any one out of two) (04)
- 1) Write a short note on any four types of claws in Aves.
  - 2) Write a short note on Peculiarities of Aquatic Mammals.
- Que.4(C) Answer the following questions. (Any three out of five) (03)
- 1) Sphenodon belong to order.....
  - 2) Archaeopteryx belongs to sub-class .....
  - 3) Which type of beak found in king fisher.
  - 4) ..... is the best example of egg laying mammals
  - 5) Dental formula of pig is .....
- Que.5(A) Answer the following questions. (Any one out of two) (07)
- 1) Give a comparative account of Stomach in vertebrates.
  - 2) Give a general account of origin and evolution of brain in vertebrates.
- Que.5(B) Answer the following questions. (Any one out of two) (04)
- 1) Describe metanephrous kidney in vertebrates.
  - 2) Sketch and label : Brain of pisces.
- Que.5(C) Answer the following questions. (Any three out of five) (03)
- 1) In the structure of stomach oxyntic cells producing.....
  - 2) First part of small intestine is known as .....
  - 3) Which type of functional kidney found in mammals?
  - 4) Cavities of olfactory sacs is known as .....
  - 5) List out the parts of fore brain.

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