

B.Sc. Semester - 4 (CBCS) Examination
April/May -2022 [OLD COURSE]
ZOOLOGY (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) WRITE ANY ONE OUT OF TWO.**[07]**

- (1) Describe peculiar characters of monotremata and affinities.
- (2) Give the classification of class mammals.

QUE-1 (B) WRITE ANY ONE OUT OF TWO.**[04]**

- (1) Give the classification of class Pisces.
- (2) Give a general account of Ratitae.

QUE-1 (C) ATTEMPT ANY THREE (OUT OF FIVE)**[03]**

- (1) Archeopterix possesses characters mix of _____ and _____.
- (2) The best example of connecting link between class reptiles and mammals is
- (3) Give any two examples of class Cyclostomata.
- (4) Tunic is a peculiarity of _____ sub phylum.
- (5) Presence of seven cervical vertebra and diaphragm are peculiar characters of class.....

QUE-2 (A) WRITE ANY ONE OUT OF TWO.**[07]**

- (1) Describe arterial system of calotes.
- (2) Give a general account of difference between poisonous and non poisonous snakes.

QUE-2 (B) WRITE ANY ONE OUT OF TWO.**[04]**

- (1) Describe: Female urinogenital system.
- (2) Describe: Migration in fishes.

QUE-2 (C) ATTEMPT ANY THREE (OUT OF FIVE)**[03]**

- (1) Which type of migration is seen in Salmon _____?
- (2) Give function and location of Pecten.
- (3) Jugular vein received blood from which organ?
- (4) Laterally flattened tail is characteristics of _____ snake?
- (5) Name the snakes in which neurotoxin venom is found?

QUE-3 (A) WRITE ANY ONE OUT OF TWO.**[07]**

- (1) Describe types of cleavage.
- (2) Write a general account on phases and symptoms of menopause.

QUE-3 (B) WRITE ANY ONE OUT OF TWO.**[04]**

- (1) Describe types of eggs according to amount of yolk.
- (2) Describe: Hormones of testis.

QUE-3 (C) ATTEMPT ANY THREE (OUT OF FIVE)

[03]

- (1) List out nitrogenous waste material found in animals.
- (2) Which type of cleavage is found in amphibian egg?
- (3) Which type of eggs found in insect according to distribution of yolk?
- (4) Define: Cleavage.
- (5) Define: Net Filtration Rate

QUE-4 (A) WRITE ANY ONE OUT OF TWO.

[07]

- (1) Describe: DNA finger printing
- (2) Explain: Cytoplasmic inheritance.

QUE-4 (B) WRITE ANY ONE OUT OF TWO.

[04]

- (1) Describe Karyotyping.
- (2) Describe : Albinism

QUE-4 (C) ATTEMPT ANY THREE (OUT OF FIVE)

[03]

- (1) In drosophila, $X/A = 1$, then it will be produce.....
- (2) In human being, when 'X' type of ova fertile by 'Y' type of sperm, it will be produce.....
- (3) In which animal Polytene chromosome is found?
- (4) In which animal sexual differentiation is controlled by hormones depend on environment.
- (5) Which type of chromosomes are not found in humans?

QUE-5 (A) WRITE ANY ONE OUT OF TWO.

[07]

- (1) Describe aortic arches in amphibia and mammals.
- (2) Explain speciation with examples

QUE-5 (B) WRITE ANY ONE OUT OF TWO.

[04]

- (1) Describe : Bombay duct fisheries in short.
- (2) Describe: Analogous organs.

QUE-5 (C) ATTEMPT ANY THREE (OUT OF FIVE)

[03]

- (1) Write scientific name of Pomfret.
- (2) Make list of vestigial organs in humans.
- (3) Cranial capacity of Java Man is _____.
- (4) Give composition of Pearl.
- (5) Make list of homologous organs.
