



K24U 1641

Reg. No. :

Name :

**Second Semester B.Sc. Degree (CBCSS – OBE-Regular/Supplementary/
Improvement) Examination, April 2024**

(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN ZOOLOGY

2C02ZLG : Diversity of Life II

Chordate Form and Function

Time : 3 Hours

Max. Marks : 32

Instruction : Provide labeled diagrams **wherever** necessary.

I. Essay Questions. Answer **any two**. **(2×6=12)**

- 1) Write an essay on the salient features of the phylum Chordata. Write the outline classification of the phylum Chordata.
- 2) Describe the salient features of the Class Reptilia and classify the Class Reptilia.
- 3) Write an essay on the economic importance of fishes.
- 4) Describe the dentition in Mammals.

II. Short Essay Questions. Answer **any two**. **(2×3=6)**

- 5) Write a short note on the characteristic features of *Ichthyophis*.
- 6) Describe the diagnostic features of superclass Tetrapoda.
- 7) Explain the morphological features of Order Primates.

III. Short Answer Questions. Answer **any six**. **(6×2=12)**

- 8) What is the difference between Meroblastic and Holoblastic Cleavage ?
- 9) Describe the features of *Branchiostoma*.
- 10) Give an account on pouched mammals.

P.T.O.



- 11) Write notes on the order Carnivora.
- 12) Differentiate between Ratite and Carinate of the class Aves.
- 13) Explain the importance of *Ornithorhynchus*.
- 14) Give a brief account on gastrulation and blastulation.
- 15) Sketch and label the mammalian sperm.

IV. Multiple Choice Questions. Answer **all** questions.

(4×0.5=2)

- 16) One of the following is not a true fish.
 - a) Hippocampus – Sea horse
 - b) Hythalamictyes – Silver carp
 - c) Carassius – Goldfish
 - d) Lepisma – Silverfish
 - 17) Example for a Limbless amphibian.
 - a) *Ichthyophis*
 - b) *Hyla*
 - c) *Phyllosoma*
 - d) *Bufo*
 - 18) Reptiles are
 - a) warm blooded
 - b) cold blooded
 - c) hot blooded
 - d) all of the above
 - 19) Cartilaginous endoskeleton is seen in
 - a) Osteichthyes
 - b) Branchiostoma
 - c) Dipnoi
 - d) Elasmobranch
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K23U 2012

Reg. No. :

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**II Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2023**

(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN ZOOLOGY

2C 02 ZLG : Diversity of Life – II

Chordate Form and Function

Time : 3 Hours

Max. Marks : 32

I. Essay Questions. Answer **any two**. (2×6=12)

- 1) Discuss salient features of class Mammalia.
- 2) With a suitable labelled diagram, explain digestive system in *Scoliodon*.
- 3) Write notes economic importance of fishes.
- 4) Write an essay on cleavage divisions, highlighting various planes of division and types of cleavage.

II. Short Essay Questions. Answer **any two**. (2×3=6)

- 5) Write notes on dentition in mammals.
- 6) Write on salient features of order Crocodylia.
- 7) Comment on the evolutionary significance of *Archaeopteryx*.

III. Short Answer Questions. Answer **any six**. (6×2=12)

- 8) Mention special features of Order Chiroptera.
- 9) Comment on 'extremely telolecithal' eggs.
- 10) Name any two extra embryonic membranes and state their functions.
- 11) Write on the peculiarities of Marsupials.
- 12) State how the heart of Pisces is unique among vertebrates.
- 13) Write notes on ovoviviparity.
- 14) What is 'iter' ?
- 15) Mention the characteristics pertaining to sea snakes.

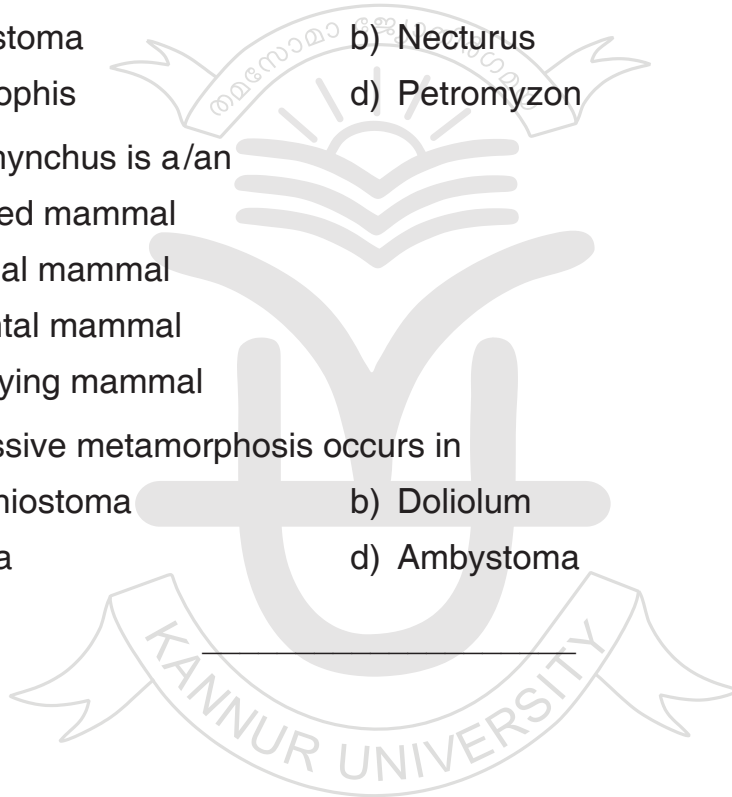
P.T.O.



IV. Multiple Choice Questions. **All** questions are **compulsory**.

(4×0.5=2)

- 16) Stings of *Trygon* are modified
- a) pectoral fin
 - b) dorsal fin
 - c) caudal fin
 - d) anal fin
- 17) Axolotl is the larval form of
- a) Ambystoma
 - b) Necturus
 - c) Ichthyophis
 - d) Petromyzon
- 18) Ornithorhynchus is a/an
- a) pouched mammal
 - b) arboreal mammal
 - c) placental mammal
 - d) egg-laying mammal
- 19) Retrogressive metamorphosis occurs in
- a) Branchiostoma
 - b) Doliolum
 - c) Ascidia
 - d) Ambystoma



K22U 1313 ✓

Reg. No. :

Name :

II Semester B.Sc. Degree (CBCSS-OBE – Regular/Supplementary/
Improvement) Examination, April 2022

(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN ZOOLOGY

2C 02 ZLG Diversity of Life – II

Chordate Form and Function

Time : 3 Hours

Max. Marks : 32

Instruction : Give illustrations and figures **wherever** necessary.

I. Essay Questions (**Each** question carries **6** marks). Answer **any two**.

- 1) Describe the flight adaptations of bird.
- 2) Describe the circulatory system of shark.
- 3) Describe the Identification of poisonous snakes of Kerala.
- 4) Write an essay on embryonic membranes and their functions. **(2×6=12)**

II. Short Essay (**Each** question carries **3** marks). Answer **any two**.

- 5) Compare the characters of Cephalochordata and urochordata.
- 6) Describe the adaptations of aquatic mammals.
- 7) Describe different types of egg. **(2×3=6)**

III. Short Answer Questions (**Each** question carries **2** marks). Answer **any six**.

- 8) What is retrogressive metamorphosis in Ascidia ?
- 9) Comment on the ecological adaptations of Chamaeleon.
- 10) Sketch and label human sperm.
- 11) Write on respiratory modifications in birds.
- 12) Write down the features of Ratite.
- 13) Write on blastulation in Branchiostoma.
- 14) What is Neoteny ? **(6×2=12)**
- 15) Comment on Pteropus.

P.T.O.

K22U 1313



IV. Multiple Choice Questions (**Each** question carries **0.5** mark). Answer **all**.

16) Elephas belongs to the order _____

- a) Chiroptera
- b) Perissodactyla
- c) Proboscidea
- d) Cetacea

17) Blastula of Branchiostoma is _____

- a) Coeloblastula
- b) Discoblastula
- c) Stomoblastula
- d) Blastocyst

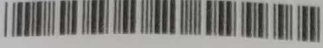
18) Venom of Cobra is

- a) Haemotoxic
- b) Neurotoxic
- c) Cytotoxic
- d) None of these

19) Which of the following is a limbless amphibian ?

- a) Ambystoma
- b) Ichthyophis
- c) Channa
- d) Bufo

(4×0.5=2)



K21U 3488

Reg. No. :

Name :

II Semester B.Sc. Degree (CBCSS – OBE-Reg./Sup./Imp.)
Examination, April 2021
(2019 Admission Onwards)
COMPLEMENTARY ELECTIVE COURSE IN ZOOLOGY
2C 02 ZLG Diversity of Life II – Chordate Form and Function

Time : 3 Hours

Max. Marks : 32

- I. Essay questions. Answer **any two** : (2×6=12)
- 1) Explain the brain of shark with suitable diagrams.
 - 2) Classify Subphylum Urochordata up to classes.
 - 3) Enumerate the salient features of Class Aves.
 - 4) Write an essay on diagnostic features of Class Osteichthyes.
- II. Short essay questions. Answer **any two** : (2×3=6)
- 5) Write an account on dentition in mammals.
 - 6) Explain structure of mammalian sperm and egg with diagram.
 - 7) Describe order Marsupialia with example.
- III. Short answer questions. Answer **any six** : (6×2=12)
- 8) Write about different types of cleavages.
 - 9) Explain fin system of shark.
 - 10) Sketch and label the placoid scales.
 - 11) Comment on arboreal adaptation of *Chamaeleon*.
 - 12) Write notes on parental care in *Ichthyophis*.
 - 13) Write four aquatic adaptations of whales.
 - 14) Comment on egg laying mammals.
 - 15) Write notes on flight adaptations of bat.

P.T.O.



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(4×0.5=2)

IV. Multiple choice questions. Answer **all** questions :

- 16) Metamorphosis is seen in
 - a) *Ascidia*
 - b) *Panthera*
 - c) *Macropus*
 - d) *Equus*
- 17) *Amblystoma* belongs to
 - a) Pisces
 - b) Amphibia
 - c) Reptilia
 - d) Aves
- 18) Which organ develops from Ectoderm ?
 - a) Skin
 - b) Heart
 - c) Kidney
 - d) Liver
- 19) Largest egg belongs to
 - a) *Struthio*
 - b) *Casaurius*
 - c) *Columba*
 - d) *Pavo*



K20U 0488

Reg. No. :

Name :

**II Semester B.Sc. Degree CBCSS (OBE) – Regular Examination, April 2020
(2019 Admission)**

Complementary Elective Course in Zoology

2C02 ZLG : DIVERSITY OF LIFE – II

Chordate Form and Function

Time : 3 Hours

Max. Marks : 32

I. Essay Questions. Answer **any two** :

(2×6=12)

- 1) Write an essay on identification of poisonous snakes.
- 2) Classify Class Amphibia up to order.
- 3) Write an essay on arterial system of shark with diagram.
- 4) Write an essay on different embryonic membranes and function.

II. Short Essay Questions. Answer **any two** :

(2×3=6)

- 5) Write features of Order Monotremata.
- 6) What are the different adaptations of aquatic mammals ?
- 7) Classify different types of eggs based on distribution of yolk.

III. Short Answer Questions. Answer **any six** :

(6×2=12)

- 8) Write about the three germ layers.
- 9) Write notes on order Chiroptera.
- 10) Write about economic importance of fishes.

P.T.O.

K20U 0488



- 11) Write three fundamental characteristics of chordates.
- 12) Write notes on Order Thaliacea.
- 13) Explain pentadactyly.
- 14) Explain neotony with example.
- 15) Write notes on thecodont dentition.

IV. Multiple Choice Questions. Answer **all** questions.

(4×0.5=2)

- 16) Petagium is seen in
a) Whale b) Dugong c) Bat d) Odobenus
 - 17) *Pavo cristatus* is scientific name of
a) Horn bill b) Ostrich c) Emu d) Peacock
 - 18) Which one of these is oviparous ?
a) *Ornithorhynchus* b) *Equus*
c) *Elephus* d) *Pteropus*
 - 19) The heart is completely four chambered in
a) *Macaca* b) *Chamaeleon*
c) *Bufo* d) *Etroplus*
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