



MBB-003-1014020

Seat No. _____

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

March / April - 2018

Zoology : Paper - Z - 04

(New Course)

Faculty Code : 003

Subject Code : 1014020

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

[Total Marks : 70

- Instructions :** (1) Draw neat and labelled diagram wherever necessary.
(2) Figures to the right side indicate full marks for the question.

- 1 (a) Answer the following questions : 4
- (1) How many cranial nerves are found in Reptile?
 - (2) Give any two names of Ratitae birds.
 - (3) What is common name of Platypus?
 - (4) From which country, Fossils of Archaeopteryx were found?
- (b) Answer in brief : (Any 1 out of 2) 2
- (1) Describe general characters of Cyclostomata.
 - (2) Which Avian characters are exhibited by Archaeopteryx?
- (c) Answer in detail : (Any 1 out of 2) 3
- (1) Why Platypus is famous as connecting link?
 - (2) Write general characters of class Amphibia.
- (d) Write a note : (Any 1 out of 2) 5
- (1) Classify with reasons and its characters: Loris
 - (2) Write general account on Ratitae.

- 2** (a) Answer the following questions : **4**
- (1) Write any three names of non-poisonous snakes.
 - (2) What is Catadromous type of Migration?
 - (3) What is scientific name of Calotes?
 - (4) What is function of Pecten ?
- (b) Answer in brief : (Any 1 out of 2) **2**
- (1) Draw only labelled diagram - Digestive system of Calotes.
 - (2) Write brief note on Snake bite.
- (c) Answer in detail : (Any 1 out of 2), **3**
- (1) Explain Anadromous type of migration.
 - (2) Write characters of Naja naja (Cobra Snake).
- (d) Write a note : (Any 1 out of 2) **5**
- (1) Brain of Calotes.
 - (2) Write differences between Poisonous and Non-poisonous snakes.
- 3** (a) Answer the following questions : **4**
- (1) Define Ultra filtration.
 - (2) Creatine is synthesised in.....
 - (3) Gaunine is excreted by which animal ?
 - (4) Write only name of hormones which is secreted by Testis.
- (b) Answer in brief : (Any, 1 out of 2) **2**
- (1) Write brief review on any two Nitrogenous wastes.
 - (2) Which hormones are produced from ovary?
- (c) Answer in detail : (Any 1 out of 2) **3**
- (1) Structure of Nephron.
 - (2) Explain types of egg on the basis of yolk distribution.

- (d) Write a note : (Any 1 out of 2) 5
- (1) Menopause.
 - (2) Formation of Urine.
- 4 (a) Answer the following questions : 4
- (1) Define Karyotyping.
 - (2) What is DNA Finger printing?
 - (3) Give examples of inborn errors of metabolism.
 - (4) How many pairs of chromosomes are present in Human?
- (b) Answer in brief : (Any 1 out of 2) 2
- (1) Sex determination in Bonellia.
 - (2) Explain Phenylketonuria in short.
- (c) Answer in detail : (Any 1 out of 2) 3
- (1) Polytene Chromosome.
 - (2) Cytoplasmic inheritance - Kappa particles in Paramecium?
- (d) Write a note : (Any 1 out of 2) 5
- (1) Explain types of chromosomes according to Centromere.
 - (2) Sex determination in Drosophila.
- 5 (a) Answer the following questions : 4
- (1) What is local name of Bombay duck?
 - (2) Write any two names of Vestigial Organs of Human.
 - (3) Which Molluscan animal is associated with Pearl?
 - (4) Write only example of homologous organs.
- (b) Answer in brief : (Any 1 out of 2) 2
- (1) Define the Isolation.
 - (2) Write evolutionary importance of Homo erectus.

- (c) Answer in detail : (Any 1 out of 2) **3**
- (1) Write a detailed note on Analogous Organs.
 - (2) Formation of Pearl Oyster.
- (d) Write notes : (Any 1 out of 2) **5**
- (1) Describe Pomfret fisheries.
 - (2) Explain any three comparative Aortic arch.
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