



NBA-003-001424 Seat No. _____

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

March / April - 2017

Zoology : Paper - Z - 401

Faculty Code : 003

Subject Code : 001424

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

[Total Marks : 70

- Instructions :** (1) All Questions are compulsory.
(2) The right side figure indicates total marks of the question.
(3) Draw the figure wherever necessary.

1 Write the answers in short : 20

- (1) Give the example of class thaliacea.
- (2) Give the example of class larvacea.
- (3) How many chambers are present in heart of amphibia?
- (4) How many % of Neutrophils form _____ of the leucocytes count.
- (5) The life span of thrombocytes is only _____ days.
- (6) Give the function of Pepsin enzyme.
- (7) Which animals have lack of salivary amylase in saliva?
- (8) The body of snake Cobra (Naja naja) measures about _____ meters.
- (9) Give the full form of ADH hormone.
- (10) The size of ovum of frog is about _____ mm.
- (11) Give the definition of Biotechnology.
- (12) Brief notes on Pearl oyster.
- (13) Brief notes on Lobster fishery.
- (14) Brief notes on threatened animal Tiger.

- (15) Give the function of Thyroxin hormone with relation to urine formation.
- (16) Give the function of Aldosterone hormone with relation to urine formation.
- (17) Brief notes on snake - hydrofish.
- (18) How many pairs of cranial nerves are present in Calotes?
- (19) How many pairs of cranial nerves are present in Scoliodon?
- (20) The length of common house crow is about _____ cm.

- 2 (A) Write answers any three out of six : 6
- (1) Structure of fish scale 'Placoid'
 - (2) Salient features of class mammalia.
 - (3) Comments on Axolotal larvae.
 - (4) Cleavage in frog embryo.
 - (5) Classification of Myxine with giving reasons.
 - (6) Notes on threatened birds Vulture.
- (B) Write answers any three out of six : 9
- (1) Write notes on snake - Viper.
 - (2) Formation of urine.
 - (3) Notes on wild life conservation.
 - (4) Reasons for depletion of wild life.
 - (5) Gastrula stage in frog embryo.
 - (6) Salient features of Class Aves.
- (C) Write answers any two out of five : 10
- (1) Urinogenital system of male Scoliodon - only Labeled diagram.
 - (2) Write notes on 'Ranikhat'
 - (3) Explain Digestive system of Calottes.

- (4) Key to identify poisonous from non-poisonous snakes.
- (5) Write histological techniques for preparation of biological material Fixing, embedding and sectioning, staining and mounting.

- 3** (A) Write answers any three out of six : **6**
- (1) Structure of egg (ova) of frog.
 - (2) Blastula stage in frog embryo.
 - (3) Ampulae of Lorenzini
 - (4) Importance of balanced food in poultry science.
 - (5) Notes on Pomfret fishery.
 - (6) Write composition of blood.
- (B) Write answers any three out of six : **9**
- (1) Function of blood.
 - (2) Notes on quality of egg (chick).
 - (3) Notes on Rotary microtome.
 - (4) Histological structure of mammal's Pancreas.
 - (5) Notes on physiology of digestion.
 - (6) Give brief about on Asiatic Lion
- (C) Write answers any two out of five : **10**
- (1) Write notes on Bombay duck fisheries.
 - (2) Write notes on 'Poulorum'
 - (3) Nutritive value of chick egg.
 - (4) Explain Digestive system of Scoliodon.
 - (5) Write notes on Industrial and Pharmaceutical Biotechnology.
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