



MBB-003-001424 Seat No. _____

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

March / April - 2018

Zoology : Z-401

(Old Course)

Faculty Code : 003

Subject Code : 001424

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

[Total Marks : 70

Instructions :

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

1 Answer the following questions : 20

- [1] In Scoliodon, caudal fin is.....
- [2] Write the example of Cyclostomata.
- [3] In which process Epiboly of the cells is produced ?
- [4] The embryo having very first space is called.
- [5] On the basis of classification, which classes stand after Amphibia ?
- [6] How many chambers are present in the heart of Scoliodon ?
- [7] Which cleavage leads to divide the embryo into micromere and macromer ?
- [8] In which organ Bowman's Capsule is present ?
- [9] Name the structure on which Blastodisc is located.
- [10] What is the name of book in which the list of threaten birds and animals are categorised?
- [11] Name any three excretory substances which are excreted by animals.
- [12] In which part of the alimentary canal, absorption occurs?

- [13] What is common name of 'Pinctada' genus ?
- [14] Poulorum caused by which type of organism ?
- [15] Which fisheries item is called as 'Bumala' ?
- [16] What is histological importance of Microtome ?
- [17] Rennin only is produced in
- [18] In which organ of Caloties, Pectine are located ?
- [19] Write any three species of snakes which are non-venomous.
- [20] Which stage is first in mechanical digestion ?

- 2** (a) Attempt any three out of six : **6**
- (1) Explain only structure of Palcoid scale.
 - (2) Explain characteristics of Agnatha.
 - (3) Explain Fixing of Tissue for Histological Techniques.
 - (4) Ammonia as excretory substance.
 - (5) Structure of Blood cells.
 - (6) Structure of Hyoid apparatus in Calotes.
- (b) Attempt any three out of six : **9**
- (1) Ampullae of Larenzini.
 - (2) Gastric digestion.
 - (3) Explain - Absorption.
 - (4) Difference between poisonous and non-poisonous snakes.
 - (5) Describe types of Granulocytes.
 - (6) Explain characteristics of Class Ascidia.
- (c) Attempt any two out of five : **10**
- (1) Classify - Sting ray.
 - (2) Explain Rotary Microtome.
 - (3) Male reproductive system of Scoliodone.
 - (4) Histological structure of Thyroid gland.
 - (5) Structure of Nephron.

- 3** (a) Attempt any three out of six : **6**
- (1) Explain crafts and gears for Pomfret fishing.
 - (2) Explain importance of pharmaceutical biotechnology.
 - (3) Describe identification marks of White Rumped Vulture.
 - (4) Describe first two cleavage of Frog.
 - (5) Pectin of Calotes.
 - (6) Draw figure - T.S. of Pancreas.
- (b) Attempt any three out of six : **9**
- (1) Nutritive value of Chick egg.
 - (2) Draw only labelled figure - Gastrula of frog.
 - (3) Explain main reasons of wild life depletion in India.
 - (4) Describe Ranikhet, as poultry diseases.
 - (5) Describe in brief - threats to Himalayan Golden Eagle.
 - (6) Explain main reasons for wild life depletion.
- (c) Attempt any two out of five : **10**
- (1) Blastulation in frog.
 - (2) Structure of Chick egg.
 - (3) Digestive system of Calotes.
 - (4) Describe Bombay duck fisheries.
 - (5) Explain - Snow leopard as threatened animal.
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