

(6 pages)

Reg. No. : .....

Code No. : 11568 E      Sub. Code : JMZO 12/  
SMZO 12

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2018.

First Semester

Zoology – Main

ANIMAL DIVERSITY – II – CHORDATA

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Which of the following has 'Wheel organ'?  
(a) Balanoglossus      (b) Ascidian  
(c) Petromyzon      (d) Amphioxus
2. Larval form of Balanoglossus is  
(a) Trochophore      (b) Bipinnaria  
(c) Tornaria      (d) Redia

3. The types of kidney in shark is

(a) Pronephric  
(b) Opisthonephric  
(c) Mesonephric  
(d) Metanephric

4. Shark is an animal of

(a) Oviparus      (b) Viviparus  
(c) Ovi-viviparus      (d) Parthenogenic

5. Tailless amphibians belong to the order

(a) Anura      (b) Urodela  
(c) Apoda      (d) All of these

6. The largest Poisonous snake with would is

(a) Naja naja      (b) Naja kannah  
(c) Vipera russell      (d) Bangarus

7. In pigeon, the number of air sacs in the lungs is

(a) 6      (b) 9  
(c) 12      (d) 15

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8. Synsacrum is present in  
(a) Fish (b) Frog  
(c) Bird (d) Reptiles
9. Which of the following is an egg laying mammal?  
(a) Rabbit (b) Bat  
(c) Kangaroo (d) Echidna
10. The special feature of Mammal is  
(a) Body covered with hair  
(b) Mammary glands  
(c) Fleshy pinna  
(d) All of these

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain the external features of Ascidian.  
Or  
(b) Draw a neat labelled sketch of Balanoglossus.

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12. (a) Give short note on the structure of placoid scale.

Or

- (b) Write an account on migration of fishes.

13. (a) Write the general characters of class amphibian.

Or

- (b) Explain the external morphology and biological significance of chamaeleon.

14. (a) Write various types of flight muscles in birds.

Or

- (b) Describe the male reproductive system of pigeon.

15. (a) Describe the dental formula of rabbit.

Or

- (b) Describe the structure of lungs in rabbit.

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**PART C — (5 × 8 = 40 marks)**

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Analyse the characteristic features of phylum chordate and classify upto classes with suitable examples.

Or

- (b) Discuss the external features and biological significance of *Amphioxus*.

17. (a) Write an essay on accessory respiratory organs of fishes.

Or

- (b) Describe the urinogenital system of shark.

18. (a) 'Amphibians are noted for their parental care' — Justify.

Or

- (b) Explain how the poisonous snakes are identified from non-poisonous snakes.

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19. (a) Explain the flight adaptations in birds.

Or

- (b) Write an essay on migration of birds.

20. (a) Draw and describe the brain of rabbit.

Or

- (b) Explain about the adaptations of aquatic mammals.
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