

2020

ZOOLOGY (Honours)

Paper Code : ZHT - II - A & B

[New Syllabus]

Important Instructions for Multiple Choice Question (MCQ)

- Write Subject Name and Code, Registration number, Session and Roll number in the space provided on the Answer Script.

Example : Such as for Paper III-A (MCQ) and III-B (Descriptive).

Subject Code :

III	A	&	B
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Subject Name :

- Candidates are required to attempt all questions (MCQ). Below each question, four alternatives are given [i.e. (A), (B), (C), (D)]. Only one of these alternatives is 'CORRECT' answer. The candidate has to write the Correct Alternative [i.e. (A)/(B)/(C)/(D)] against each Question No. in the Answer Script.

Example — If alternative A of 1 is correct, then write :

1. — A

- There is no negative marking for wrong answer.

মাল্টিপল চয়েস প্রশ্নের (MCQ) জন্য জরুরী নির্দেশাবলী

- উত্তরপত্রে নির্দেশিত স্থানে বিষয়ের (Subject) নাম এবং কোড, রেজিস্ট্রেশন নম্বর, সেশন এবং রোল নম্বর লিখতে হবে।

উদাহরণ — যেমন Paper III-A (MCQ) এবং III-B (Descriptive)।

Subject Code :

III	A	&	B
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Subject Name :

- পরীক্ষার্থীদের সবগুলি প্রশ্নের (MCQ) উত্তর দিতে হবে। প্রতিটি প্রশ্নে চারটি করে সম্ভাব্য উত্তর, যথাক্রমে (A), (B), (C) এবং (D) করে দেওয়া আছে। পরীক্ষার্থীকে তার উত্তরের স্বপক্ষে (A)/(B)/(C)/(D) সঠিক বিকল্পটিকে প্রশ্ন নম্বর উল্লেখসহ উত্তরপত্রে লিখতে হবে।

উদাহরণ — যদি 1 নম্বর প্রশ্নের সঠিক উত্তর A হয় তবে লিখতে হবে :

1. – A

- ভুল উত্তরের জন্য কোন নেগেটিভ মার্কিং নেই।

Paper Code : ZHT - II - A

Full Marks : 10

Time : Thirty Minutes

Choose the correct answer.

Answer *all* the following questions,
each question carries 1 mark.

1. Which one of the following structures is present in all Chordates?
 - (A) Cranium
 - (B) Notochord
 - (C) Spinal cord
 - (D) Vertebral column

2. Notochord is restricted to tail region only in —
 - (A) Hemichordata
 - (B) Cephalochordata
 - (C) Urochordata
 - (D) None of these

3. Which of the following are Anamniotes?
 - (A) Chondrichthyes, Osteichthyes, Amphibia
 - (B) Reptilia, Aves, Amphibia
 - (C) Amphibia, Aves, Mammals
 - (D) Reptilia, Mammals, Aves

4. Preen gland occurs in —
 - (A) Pisces
 - (B) Aves
 - (C) Reptilia
 - (D) Mammalia

5. The larva of Petromyzon is called —
- (A) Ammocoete
 - (B) Planula
 - (C) Tadpole
 - (D) Tornaria
6. The space between incisor and premolar in rodent is called —
- (A) Diastema
 - (B) Trituberculate
 - (C) Metamere
 - (D) Pterylosis
7. Snakes are sensitive to —
- (A) Noises
 - (B) Thunder
 - (C) Air-borne vibrations
 - (D) Earth-borne vibrations
8. The most common mode of flight is —
- (A) Gliding
 - (B) Flipping
 - (C) Hovering
 - (D) Soaring

9. Mammary glands are modified —

- (A) Sebaceous glands
- (B) Sudorific glands
- (C) Cutaneous glands
- (D) None of these

10. Central nervous system in vertebrates is derived from —

- (A) Basal plate
- (B) Blastopore
- (C) Neural plate
- (D) None of these

P - I (1+1+1) H / 20 (N)

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Paper Code : ZHT - II - B

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Full Marks : 40

Time : One Hour Thirty Minutes

The figures in the margin indicate full marks.

Write your answer within one page for the questions carrying 4 marks each and within three pages for the questions carrying 12 marks each.

Unit - 1

(Life and Diversity : Urochordates to Mammals)

1. Answer any *two* questions : 4×2=8
 - (a) Write a short note on Ammocoete larva and its evolutionary significance.
 - (b) Write a note on salient features of Dipnoi.
 - (c) What is uropygial gland? State its function. 2+2=4
 - (d) State the differences between Osteichthyes and Chondrichthyes.

2. Answer any *one* question : 12×1=10
 - (a) Describe with suitable diagram respiratory system of *Columba* sp.
Describe the mechanism of double respiration in *Columba* sp. 6+6=12
 - (b) What is retrogressive and progressive metamorphosis? Describe in detail the retrogressive metamorphosis seen in *Ascidia* sp. 4+8=12
 - (c) Give an account of accessory respiratory organs in fishes with suitable diagram. 12

Unit - 2

(Life and Diversity : Comparative anatomy and special features)

3. Answer any *two* questions : 4×2=8
- (a) Write a short note on different types of scales in fish.
 - (b) Distinguish between horn and antlers.
 - (c) What do you mean by Neoteny and Paedogenesis?
 - (d) Write a short note on dentition in mammals.
4. Answer any *one* question : 12×1=12
- (a) Give a comparative account of heart in Amphibia, Reptilia and Mammalia with suitable diagram. 12
 - (b) Draw and describe mammalian hair structure. Write a short note on echolocation of bat. 6+6=12
 - (c) Write short notes on : 6+6=12
 - (i) Integumentary glands of Mammals
 - (ii) Types of feathers in bird
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