

2020

## ZOOLOGY (Honours)

Paper Code : ZHT - I - 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 : 

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- 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 - I - A**

Full Marks : 10

Time : Thirty Minutes

Choose the correct answer.

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

1. Prothoracicotropic hormone (PTTH) in insects is released from —
  - (A) Corpora cardiaca
  - (B) Corpora allata
  - (C) Prothoracic glands
  - (D) All of the above
  
2. Which one of the following is unrelated?
  - (A) Sea cucumber
  - (B) Sea star
  - (C) Sea urchin
  - (D) Sea squid
  
3. Aristotle's lantern functions as \_\_\_\_\_ organ.
  - (A) Masticatory
  - (B) Excretory
  - (C) Respiratory
  - (D) Reproductive

4. The infective stage of *Ascaris* is —
- (A) Microfilaria
  - (B) Rhabditiform
  - (C) Redia
  - (D) Cercaria
5. The excretory organ of *Pheretima* consists of —
- (A) Septal nephridia
  - (B) Integumentary nephridia
  - (C) Pharyngeal nephridia
  - (D) All of the above
6. Stomochord found in —
- (A) Insecta
  - (B) Mollusca
  - (C) Echinodermata
  - (D) Hemichordata
7. Which one of the following is the wrongly matched pair?
- (A) Star coral- *Astrea*
  - (B) Brain coral- *Meandrina*
  - (C) Blue coral- *Heliopora*
  - (D) Sea fan- *Pennatula*

8. The sequence of larval forms found in the life cycle of *Fasciola* is —
- (A) Miracidium-sporocyst-redia-cercaria-metacercaria
  - (B) Hexacanth-redia-cercaria-metacercaria
  - (C) Miracidium-cercaria-hexacanth-metacercaria
  - (D) Miracidium-hexacanth-cercaria-redia
9. The trochophore larva is found in —
- (A) Cnidarians and Annelida
  - (B) Annelida and Porifera
  - (C) Annelida and Mollusca
  - (D) Mollusca and Coelenterata
10. Anal cerci are present in —
- (A) Both male and female cockroaches
  - (B) Male cockroach
  - (C) Female cockroach
  - (D) Female *Ascaris*

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

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## ZOOLOGY (Honours)

Paper Code : ZHT - I - B

[New Syllabus]

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 : Protozoa to Annelida)

1. Answer any *two* questions : 4×2=8
  - (a) Write a note on syconoid type of canal system with a suitable diagram. 2+2=4
  - (b) Write in brief about locomotion in *Euglena* with suitable diagram.
  - (c) Write a short note on regeneration in *Hydra*.
  - (d) Write the structure and function of aboral sense organ of *Hormiphora*.
  
2. Answer any *one* question : 12×1=12
  - (a) Define polymorphism. Describe the phenomenon of polymorphism and its significance in siphonophora. 2+7+3=12
  - (b) Classify phylum Cnidaria up to subclasses with suitable characters and examples. 12
  - (c) Define conjugation. Describe the process of conjugation and its significance in *Paramoecium caudatum* with proper diagram. 2+7+3=12

## Unit - 2

### (Life and Diversity : Arthropoda to Hemichordata)

3. Answer any *two* questions : 4×2=8
- (a) Explain the process of hormonal regulation of insect metamorphosis.
  - (b) Write a note on torsion in Gastropoda.
  - (c) Describe the water vascular system in asteroids with diagram.
  - (d) Describe the parasitic adaptations of *Sacculina*.
4. Answer any *one* question : 12×1=12
- (a) Classify phylum Mollusca up to living subclasses with suitable characters and examples. 12
  - (b) State the phylum whose larval form is bilaterally symmetrical compared to radially symmetrical adult. Give a short account of the different larval forms found in that phylum with diagram. Mention the significance of larval forms found in that phylum. 1+4+4+3=12
  - (c) Briefly describe the feeding mechanism of *Balanoglossus*. Draw and describe the structure of tornaria larva. 6+6=12
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