

Seat Number

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Oct-2016



ZOOLOGY PAPER - I : ZOO - 121
Chordates - I
(115201)

P. Pages : 3

Time : Two Hours

Max. Marks : 60

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Figures to right indicate full marks.
5. Draw neat labelled diagrams wherever necessary.

1. a) Multiple choice question - attempt **any six**.

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- i) The fore brain is the anterior part of the brain, it is so called-----.
 a) Mesencephalon b) Prosencephalon
 c) Diencephalon d) Rhombencephalon
- ii) The urine of calotes is ----- in nature.
 a) Solid b) liquid
 c) semi solid d) None
- iii) The wall of calotes heart is provided with ----- layers.
 a) 2 b) 3
 c) 4 d) None
- iv) The main digestive gland of calotes are liver and ----- gland.
 a) Salivary b) Pancreas
 c) Gastric d) Parietal
- v) The body of calotes is divided into ----- parts.
 a) 2 b) 3
 c) 4 d) 5
- vi) ----- are organs of swimming in fishes.
 a) fin b) scales
 c) Lateral line d) None

- vii) The dental formula of cat is -----
 a) 1/1, 0/0, 0/0, 3/3 b) 3/3, 1/1, 3/2, 1/1
 c) 3/3, 1/1, 4/4, 2/3 d) 1/0, 0/0, 0/0, 3/3

- viii) Calotes is widely distributed in ----- countries.
 a) African b) Asian
 c) American d) None

b) Answer in one sentence **any six**.

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- i) Enlist the prey of Garden lizard.
- ii) What is hemipenes.
- iii) Why teeth are not used for mastication.
- iv) What does mean by adaptation.
- v) What is mean by metamorphosis.
- vi) Enlist the respiratory passage of calotes.
- vii) What is pericardium.
- viii) What is fertilization.

2. Define/Explain/Comment **any six**.

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|----------------------|-------------------------------|
| a) Pelvic fin | b) Dentition |
| c) Scales of calotes | d) Digestive gland of calotes |
| e) Expiration | f) Dorsal aorta |
| g) Urinary bladder | h) Ventricles |

3. Attempt **any four** from the following.

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- i) Explain trunks of calotes.
- ii) Sketch and label ctenoid scale.
- iii) Explain copulation & fertilization in calotes.
- iv) Explain hind brain of calotes.

v) Write a note on lateral fin.

vi) Write a significance of teeth.

4. Attempt **any three** of the following.

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i) Describe structure & function of cycloid scale.

ii) Sketch & Label Internal structure of heart of calotes.

iii) What are fin? Write functions of fins in fishes.

iv) Describe female Reproductive system of calotes.

v) Explain course of blood circulation of calotes.

5. Describe in detail **any two**.

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a) Describe dental formula in mammals with suitable example. Write dental formula of Rat & Cat.

b) Describe the various system of calotes.

c) Describe digestive system of calotes.
