

April-2016

Seat Number

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किनार - 008

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. Figure to right indicate full marks.
5. Draw neat labelled diagrams wherever necessary.

1. a) Multiple choice questions attempt **any six**.

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- i) The brain is a hollow organ with..... Internal cavities.
 - a) One
 - b) Two
 - c) Four
 - d) Three
- ii) In Calotes sexes are.....
 - a) United
 - b) Separate
 - c) Hermaphrodite
 - d) None
- iii) The large intestine of calotes is also called as.....
 - a) Duodenum
 - b) Ileum
 - c) Colon
 - d) Rectum
- iv) The body of calotes is divided into..... Parts.
 - a) 2
 - b) 3
 - c) 4
 - d) 5
- v) In fishes, scales are..... in origin.
 - a) Epidermal
 - b) Dermal
 - c) Hypodermal
 - d) None

- vi) The Dental formula of Dog 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) $1/0, 0/0, 0/0, 3/3$
- vii) Calotes versicolor is commonly known as..... lizard.
 a) Wall b) Garden
 c) Tree d) Stone

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

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- i) What is the common name of calotes in Hindi.
- ii) What is hemipenes.
- iii) Why the teeth are not used for mastication.
- iv) What is mean by adaptation.
- v) Enlist the function of scales in fishes.
- vi) Enlist the respiratory passage of calotes.
- vii) State any two function of blood.
- viii) What is fertilization.

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

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|--------------------------|------------------|
| a) Caudal fin. | b) Dentition. |
| c) Nictitating membrane. | d) Bile duct. |
| e) Inspiration. | f) Dorsal aorta. |
| g) Oviparous. | h) Ventricles. |

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

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- i) Describe the sexual diamorphism in calotes.
- ii) Sketch and label placoid scale.
- iii) Explain female excretory system of calotes.
- iv) Explain the retina of calotes.

v) Write a note on dorsal fin.

vi) Write significance of teeth.

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

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i) Describe types of teeth in mammals.

ii) Sketch and label digestive system of calotes.

iii) What are fins write function of fins in fishes.

iv) Describe the male reproductive system of calotes.

v) Describe the Internal structure of heart of calotes.

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

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a) With the help of labelled diagram describe any two types of scales in fishes.

b) Describe arterial system of calotes.

c) Describe central Nervous system of calotes.
