

April 2014

Seat  
No.

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कड - 051

**ZOOLOGY PAPER - I ZOO - 121**

**Chordates - I**

**(New) (12155)**

P. Pages : 2

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

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

8

1. Multiple choice Attempt **any eight**.

- i) Frog brain is protected by .....  
a) Two meninges ;                      b) Three Meninges  
c) Four meninges ;                      d) None of these.
- ii) Vocal sacs are present in .....  
a) Male frog                              b) Male cockroach  
c) Female frog                              d) Female cockroach.
- iii) Frog has ..... vision.  
a) Binocular                              b) Monocular  
c) Multiclar                              d) None of these.
- iv) Abundance of nutrition & oxygen supply the larval stage develop gonads like adults called .....  
a) Neoteny                              b) Paedogenesis  
c) Polyteny                              d) Both a & b.
- v) In frog, the .....  
a) Forelimbs are shorter in size  
b) Hind limbs are shorter in size  
c) Fore limbs are longer  
d) None of these.
- vi) Terminal part of rectum is called.....  
a) Colon                              b) Archthra  
c) Anus                              d) Cloaca.

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- vii) Select the proper answer from the following.
- External ear is present in frog
  - Middle ear is present in frog
  - Internal ear is present in frog
  - Both b & c.
- viii) Tadpole larva of frog is converted into adult frog is called .....
- Micromorphosis
  - Metamorphosis
  - Prometamorphosis
  - Mega morphosis
- ix) Type of teeth in frog are .....
- Homodont
  - Acrodont
  - Polyphyodont
  - All.
- x) In frog heart receives.....
- Oxygenated blood
  - Venous blood
  - Mixed blood
  - Deoxygenated blood.

2. Define / explain/ comment on **any four**. 8
- Pericardium
  - Wolffian duct
  - Spinal cord
  - Pulmonary respiration
  - Cloaca
  - Neoteny.
3. Attempt **any two** of the following. 8
- Explain the gastric digestion in frog.
  - Describe the functions of different parts of the brain of frog.
  - Sketch & label the female reproductive system of frog.
4. a) Attempt **any two** of the following. 6
- Working of heart in frog.
  - Describe the structure of uriniferous tubule of frog.
  - Explain the structure of sperm of frog.
- b) Explain - Bidder's canal. 2
5. Attempt **any one** of the following. 8
- Explain metamorphosis in frog.
  - Describe the V.S of eye of frog.

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