

F.Y.B.SC. SEM – II (CBCS - 2016 Course) : WINTER - 2018
SUBJECT : ZOOLOGY : FUNCTIONAL ANATOMY OF CHORDATES – I

Day : Tuesday
Date : 23/10/2018

W-2018-0703

Time : 03.00 P.M. To 06.00 P.M.
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

Q.1 A) Attempt all the following: [06]

- a) Liver of Amphioxus is _____.
 - i) Midgut diverticulum
 - ii) Rectum
 - iii) Iliocolonic ring
 - iv) Lateral ciliary tract
- b) Thermoreceptor in Amphioxus is _____.
 - i) Eye spot
 - ii) Kollicker's pit
 - iii) Infundibular organ
 - iv) Cephalic pigment (pigment spot)
- c) Sinus venosus in frog is formed by the union of _____.
 - i) 2 precavals and 2 postcavals
 - ii) 1 precaval and 2 postcavals
 - iii) 2 precavals and 1 postcaval
 - iv) 1 precaval and 1 postcaval
- d) *Rana tigrina* is a member of the order _____.
 - i) Urodela
 - ii) Anura
 - iii) Apoda
 - iv) Lepospondyli
- e) Summer sleep of frog is known as _____.
 - i) Metamorphosis
 - ii) Hibernation
 - iii) Aestivation
 - iv) Paedogenesis
- f) Salivary glands in frog are _____.
 - i) 3 pairs
 - ii) 2 pairs
 - iii) 1 pair
 - iv) Absent

B) Attempt all the following: [06]

- a) Write class of Amphioxus.
- b) Mention four regions of body of Amphioxus.
- c) Write habitat of frog.
- d) Write function of hind limbs of frog.
- e) Write food of frog.
- f) Write function of vocal sac in frog.

Q.2 Attempt ANY THREE of the following: [12]

- a) Describe arterial system of amphioxus.
- b) Sketch and label V.S. of eye of frog.
- c) Write short note on functions of skin of frog.
- d) Describe male reproductive system of *Rana tigrina*.

P.T.O.

- Q.3** Attempt **ANY FOUR** of the following: [12]
- a) Write systematic position of Amphioxus.
 - b) Write short note on erythrocytes in frog.
 - c) Describe hepatic portal system of *Rana tigrina*.
 - d) Write significance of metamorphosis.
 - e) Describe hibernation in frog.

- Q.4** Attempt **ANY TWO** of the following: [12]
- a) Describe metamorphosis in frog.
 - b) Give an account of arterial system of frog.
 - c) Describe external characters of Amphioxus.

- Q.5** Attempt **ANY TWO** of the following: [12]
- a) With suitable diagram describe dorsal view of brain of frog.
 - b) Describe digestive system of frog.
 - c) Describe affinities of Amphioxus.

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