

F.Y.B.SC. SEM – II (CBCS - 2016 COURSE) : WINTER - 2017
SUBJECT: ZOOLOGY: FUNCTIONAL ANATOMY OF CHORDATES-I

Day: Tuesday
Date: 07/11/2017

W-2017-0564

Time: 03.00 PM TO 06.00 PM
Max. Marks: 60

N.B:

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

Q.1 A) Attempt all the following: (06)

- a) The tongue of frog is.
 - i) Short, protrusible and attached at the front end.
 - ii) Short, protrusible and attached at the distal end.
 - iii) Long, nonprotrusible and attached at the front end.
 - iv) Long, protrusible and attached at the front end.
- b) The third eyelid of frog is called.
 - i) Pineal eye
 - ii) Upper eyelid
 - iii) Lower eyelid
 - iv) Nictitating membrane
- c) Summer sleep of frog is known as.
 - i) Aestivation
 - ii) Hibernation
 - iii) Paedogenesis
 - iv) Metamorphosis
- d) Male frog can croak louder than female because being.
 - i) Stronger
 - ii) Larger in size
 - iii) Larger sound
 - iv) Vocal sacs
- e) Liver in Branchiostoma is.
 - i) Midgut diverticulum
 - ii) Iliocolonic ring
 - iii) Rectum
 - iv) Lateral ciliary tract
- f) Amphioxus is a member of class.
 - i) Urochordata
 - ii) Protochordata
 - iii) Cyclostomata
 - iv) Cephalochordata

B) Attempt all the following: (06)

- a) Enlist sense organs of Amphioxus.
- b) Write the habit of Amphioxus.
- c) Write the class of frog.
- d) Define squatting posture of frog.
- e) Write the function of tympanic membrane in frog.
- f) Write the function of hind limbs of frog.

Q.2 Attempt ANY THREE of the following: (12)

- a) Write a note on sense organs in Amphioxus.
- b) Sketch and label dorsal and ventral view of heart of frog.
- c) Describe female reproductive system of frog.
- d) Write the functions of blood of frog.

P.T.O.

Q.3 Attempt **ANY FOUR** of the following: (12)

- a) Write a note on oral hood in Amphioxus.
- b) Describe hibernation in frog.
- c) Write functions of liver in frog.
- d) Write economic importance of frog.
- e) Write a note on working of eye in frog.

Q.4 Attempt **ANY TWO** of the following: (12)

- a) Describe affinities of Amphioxus.
- b) Describe dorsal view of brain of frog.
- c) With suitable diagram describe digestive system of frog.

Q.5 Attempt **ANY TWO** of the following: (12)

- a) Give an account of venous system of frog.
- b) Describe metamorphosis in frog.
- c) Describe external characters of Amphioxus.

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