

F.Y.B.SC. SEM – II (CBCS - 2016 COURSE) : SUMMER - 2018

SUBJECT: ZOOLOGY: FUNCTIONAL ANATOMY OF CHORDATES-I

Day: Wednesday
Date: 25/04/2018

S-2018-0642

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 frog swims in water by.
 - i) Powerful forward thrusts of its forelimbs.
 - iii) Powerful backward thrusts of its forelimbs.
 - iv) Powerful backward thrusts of its hind limbs.
 - v) Powerful forward thrusts of its hind limbs.
- b) Salivary glands in frog are.
 - i) 1 pair ii) 2 pair iii) 3 pair iv) Absent
- c) During which period frog undergoes hibernation.
 - i) Autumn ii) Spring iii) Summer iv) Winter
- d) Suitable breeding season in frog is.
 - i) Winter ii) Rainy iii) Spring iv) Summer
- e) Mouth in amphioxus is bordered by.
 - i) Oral hood ii) oral cirri
 - ii) Oral tentacles iv) Oral frill
- f) The intestine of amphioxus is divided into.
 - i) Midgut, lateral ciliary tract and diverticulum.
 - ii) Lateral ciliary tract, diverticulum and rectum.
 - iii) Midgut, hindgut and rectum.
 - iv) Midgut, iliocolic ring and hindgut.

B) Attempt all the following: (06)

- a) Write zoological name of Amphioxus.
- b) Enlist four regions of body of Amphioxus.
- c) Write the habitat of frog.
- d) Write food of frog.
- e) Write the function of fore limbs of frog.
- f) Enlist the organs present in buccal cavity of frog.

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

- a) Describe arterial system of Amphioxus.
- b) Sketch and label dorsal and ventral view of brain of frog.
- c) Describe sexual dimorphism in frog.
- d) Describe V.S. of skin of frog.

P.T.O.

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

- a) Write a note on wheel organ in Amphioxus.
- b) Write a note on camouflage in frog.
- c) Describe hepatic portal system of frog.
- d) Write a note on vocal sacs in frog.
- e) Write any four functions of skin of frog.

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

- a) Describe affinities of Amphioxus.
- b) With suitable diagram describe dorsal view of heart of frog.
- c) Give an account of metamorphosis in frog.

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

- a) With suitable diagram describe the digestive system of frog.
- b) Describe different blood cells found in frog.
- c) Give an account of the habits, habitat and external characters of Amphioxus.

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