

F.Y.B.SC. SEM – II (2014 COURSE) : SUMMER - 2018

SUBJECT: ZOOLOGY: FUNCTIONAL ANATOMY OF CHORDATES-I (Z-21)

Day : **Wednesday**
Date : **25/04/2018**

S-2018-0700

Time : **03.00 PM TO 05.00 PM**
Max. Marks : 40.

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw diagrams **WHEREVER** necessary.
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Q.1 Attempt any **TWO** of the following: **(10)**

- a) Describe arterial system of Amphioxus.
- b) Describe the feeding mechanism in Amphioxus.
- c) Describe the digestive system of frog.

Q.2 Attempt any **TWO** of the following: **(10)**

- a) With suitable diagram describe female reproductive system of frog.
- b) Describe parental care in *Alytes* and *Pipa*.
- c) Describe external characters of Amphioxus.

Q.3 Attempt any **TWO** of the following: **(10)**

- a) Sketch and label dorsal and ventral view of brain of frog.
- b) Describe 'tadpole with hind limbs' and 'tadpole with forelimbs'.
- c) Describe functions of skin of frog.

Q.4 Attempt any **FIVE** of the following: **(10)**

- a) Write significance of hepatic portal system in frog.
- b) Describe sexual dimorphism in frog.
- c) Write habits and habitat of Amphioxus.
- d) Describe hibernation in frog.
- e) Enlist parts of eye of frog viewed through V. S.
- f) Write a note on vocal sacs in frog.
- g) Write the significance of metamorphosis in frog .

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