

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, JULY 2013

(CCSS)

Zoology

ZO 1C 01—ANIMAL DIVERSITY AND WILDLIFE

Time : Three Hours

Maximum : 30 Weightage

*Answers may be written either in English or in Malayalam.
Give illustrations wherever necessary.*

Answer all *twelve* questions. Each question carries $\frac{1}{4}$ weightage :

A Objective Type Questions :

1 Which of the following animals have a four Chambered heart ?

- (a) Narcine. (b) Ascidia.
(c) Ichthyophis. (d) Man.

2 Water vascular system is found in :

- (a) Asterias. (b) Arenicola.
(c) Eupagurus. (d) Leucosolenia.

3 Which of the following is popularly known as 'Pore-bearers' ?

- (a) Sponges. (b) Nematodes.
(c) Bacteria. (d) Cnidarians.

4 Ascidia belongs to the phylum :

- (a) Mollusca. (b) Arthropoda.
(c) Aschelminthes. (d) Urochordata.

B. Match the following :-

5 Parental care

(a) Narcine

6 Retrogressive metamorphosis

(b) Hippocampus

7 Blood sucking annelid

(c) Teredo

Shipworm

(d) Hirudinaria

(e) Ascidia

(f) Shark

C. Fill in the blanks :

- 9 _____ shows Parasitic castration.
- 10 *Fasciola hepatica* is commonly called _____
- 11 _____ is a Living fossil belonging to the phylum *Arthropoda*.
- 12 Pink pages of Red Data Book contain the list of _____

(12 x $\frac{1}{4}$ = 3 weightage)

II. Short answer questions. Answer all *nine* questions :

- 13 What is Endangered species. Give an example.
- 14 What is *Thelycum* ?
- 15 What is Polymorphism ? Give an example.
- 16 What is *Ctenidia* ?
- 17 What is *Hirudin* ? Mention its function.
- 18 What is *Osteichthyes* ? Give an example.
- 19 Name the feature from which Coelenterate got its name.
- 20 Name a Wildlife Protection Act for the protection and preservation of wildlife.
- 21 Define Hot spots of biodiversity.

(9 x 1 = 9 weightage)

III. Short answer questions. Answer any *five* questions

- 22 List Arboreal adaptations of Chameleon.
- 23 State major diagnostic features of phylum *Chordata*.
- 24 What is a Biosphere reserve ?
- 25 Distinguish between Male and Female Prawn with reference to external features.
- 26 List four merits of Five kingdom classification.
- 27 What are Pneumatic bones ? Mention its advantage.
- 28 Give an account on Sea cucumber.

(5 x 2 = 10 weightage)

IV. Essay questions. Answer any *two* questions :

- 29 Briefly describe Ex situ and In situ conservation strategies.
- 30 Briefly describe causes for the loss of Biodiversity.
- 31 With labelled sketch, describe the Cephalothoracic appendages of prawn.

(2 x 4 = 8 weightage)