

This question paper contains 4 printed pages]

11/12/19 E

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S. No. of Question Paper : 8546

Unique Paper Code : 32235902

J

Name of the Paper : Animal Diversity

Name of the Course : Zoology : Generic Elective for Honours

Semester : I

Duration : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any Five questions including

Question No. 1 which is compulsory.

Draw well-labelled diagram wherever required.

Attempt various parts of a question at one place only.

1. (a) Define the following terms :  $1 \times 6 = 6$

(i) Conjugation

(ii) Cyclosis

(iii) Totipotent cells

P.T.O.



(iv) Protandrous

(v) Flame cells

(vi) Neotany

(b) Distinguish between any *three* of the following :  $2 \times 3 = 6$ 

(i) Homeothermal and Poikilothermal

(ii) Schiozocoelom and Enterocoelom

(iii) Chondrichthyes and Osteichthyes

(iv) Intermediate and Definite host.

(c) Give the scientific name and write *one* unique feature in each case :  $1 \times 4 = 4$ 

(i) Owl

(ii) Organ pipe coral

(iii) Saw fish

(iv) King crab.

(d) Give location and *one* function of the following : $1 \times 6 = 6$ 

(i) Apopyle

(ii) Renette cells

(iii) Mother of pearl

(iv) Fangs

(v) Loreal pit

(vi) Syrx

(e) Match the following

 $1 \times 5 = 5$ 

(i) Measly pork

(a) Aves

(ii) Medusae

(b) Echinoderms

(iii) Medraporite

(c) Annelida

(iv) Preen gland

(d) Obelia

(v) Nephridia

(e) Taenia

2. Give an account of canal systems of Poriferans and write its significance.  $9 + 3 = 12$ 

3. (a) Describe social life in honey bee. 8

(b) Explain the process of pearl formation in Mollusca. 4

4. What is Osmolarity ? Explain it in fresh and marine water fishes. 12

5. (a) Describe various means of parental care in Amphibians. 7

(b) Explain flight adaptations in Aves. 5



6. (a) Explain the life history of *Taenia solium* and add a note on its pathogenicity. 8
- (b) Write general characteristics of Annelida. 4
7. Write short notes on any *three* of the following :  $4 \times 3 = 12$
- (a) Adaptation in reptiles for terrestrial life
- (b) Dentition in mammals
- (c) Water vascular system
- (d) Polymorphism in Coelentrata.