

B.Sc. 4th Semester (New Scheme) Examination,

May-2017

BIOTECHNOLOGY


Paper-BT-401

Animal Diversity

Time allowed : 3 hours]

[Maximum marks : 40

Note : Question No. 1 is compulsory. Attempt four more question by selecting one question from each unit. All questions carry equal marks.

1. Write the short notes on the following : 1×8=8
- (a) Branchial gill clefts
 - (b) Name of two fresh water fishes
 - (c) Viviparous
 - (d) Serpentology
 - (e) Pentadactyle
 - (f) Epidermis
 - (g) Urino-genital
 - (h) External fertilization
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Unit-I

2. Describe general feature and important characters of Hermania in detail ? 8
3. Write the note on any two : 4×2=8
- (a) Pedogenesis
 - (b) Migration of Pisces
 - (c) Parental care in Amphibian

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Unit-II

4. Write the note on any *two* : 4×2=8
(a) Flight-adaptations of birds
(b) Origin of Mammals
(c) Dentition in Mammals
5. Describe the origin, general feature and classification of the class Reptilia ? 8

Unit-III

6. Describe the comparative anatomy of the larynx and lungs of respiratory system of the vertebrates ? 8
7. Describe the comparative anatomy of the digestive gland, intestine and stomach of reptilian, avian and mammals? 8

Unit-IV

8. Describe the development of autonomic nervous system of the mammals. 8
9. Describe the comparative of kidney and urinogenital system of the various classes of the vertebrates ? 8