

4110

4

7. Write short notes (any 3) : (5×3=15)

- (a) General characteristics and classification of class aves upto order.
- (b) Types of biodiversity.
- (c) General characteristics of class reptila and classification upto order.
- (d) General characteristics of superclass aganatha and classification upto order.

(200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4110 H

Unique Paper Code : 6792011202

Name of the Paper : Diversity of Life Forms II

Name of the Course : B.Sc. (H) Biological Sciences

Semester : II

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. This paper contains 7 questions. Answer only **four** questions.
3. Question number 1 is compulsory to attempt.
4. **All** parts of the question should be answered together.
5. Attempt each new question on a fresh page.

1. (a) Define the following : (any 5) (1×5=5)

(i) Living fossil

(ii) Herbarium

(iii) Artificial system of classification

P.T.O.

4110

2

- (iv) Retrogressive Metamorphosis
- (v) Swim bladder
- (vi) Cloaca
- (b) Briefly differentiate between the following :
(any 2) (2×2=4)
 - (i) Coralloid and Mycorrhizal roots
 - (ii) Microsporophyll and Megasporophyll
 - (iii) Amniotes and anamniotes
 - (iv) Prototheria and Eutheria
- (c) Fill in the blanks : (1×2=2)
 - (i) Stomochord is present in _____.
 - (ii) All living agnathans show _____ mode of nutrition at some point in their life cycle.
- (d) Write scientific names & classification upto order : (1×4=4)
 - (i) Cobra
 - (ii) Acorn worm
 - (iii) Saw fish
 - (iv) Flying lizard

4110

3

- 2. (a) Write General characteristics features of Gymnosperms. (7)

(b) Describe structures of stem and leaves of *Pinus*. (8)
- 3. What are zoogeographical realms? Discuss the various zoogeographical realms along with distribution of flora and fauna in each realm. (15)
- 4. (a) Write Bentham and Hooker classification up to series level. Add a note on its merits and demerits. (7)

(b) Write APG system I up to clades and briefly explain major changes in APG - II, III, IV. (8)
- 5. What is biodiversity? Describe various types of biodiversity and comment upon their significance. (2+9+4=15)
- 6. (a) Discuss the general characteristics of class amphibia. State the basis of classification of amphibians and give a brief account of each order. (3+6=9)

(b) Write general characteristics of Pisces. Differentiate between chondrichthyes and osteichthyes. (3+3=6)

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