

PD-386
(553) M.Sc. ZOOLOGY (THIRD SEMESTER)
Examination Dec.-2020
Compulsory/Optional
Group -
Paper - II

Name/Title of Paper- BIOSYSTEMATICS, TAXONOMY & BIODIVERSITY

Time:- Three Hours

Maximum Marks- 080

Minimum Passing Marks-029

नोट: दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note: Answer From Both the Section as Directed. The Figures in the right-hand margin indicate marks.

Section-A

1. Answer the following questions:

1x10

- (a) Who coined the term biosystematics?
- (b) Who is the father of biosystematics?
- (c) Who gave the term taxonomy?
- (d) Who is the father of Indian taxonomy?
- (e) How many kingdoms are recognized? (name them)
- (f) Differentiate biosystematics and taxonomy in one sentence?
- (g) Who introduced taxonomic keys?
- (h) Differentiate panmictic and apomictic species in one sentences?
- (i) Name at lease two hot spots of biodiversity in India?
- (j) Differentiate Alfa taxonomy and beta taxonomy in one sentence?

2. Answer the following short-answer type questions:

2x5

- (a) Write about importance of taxonomy?
- (b) Define taxonomic characters?
- (c) Name the taxonomic keys?
- (d) Write types of biodiversity?
- (e) What is molecular taxonomy?

Section-B

Answer all questions:

15x4

3. Describe chemotaxonomy in detail.

Or

Explain importance and applications of biosystematics in biology.

4. Explain mechanism of species formation.

Or

Discuss theories of biological classification.

5. What are the International code of Zoological nomenclature (ICNZ).

Or

Describe taxonomic collections preservation and curation.

6. Write in detail about biodiversity indices.

Or

Discuss the threats to biodiversity.