



UNIVERSITY OF THE PUNJAB

Seventh Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Principle of Systematics

MAX. TIME: 15 Min.

Course Code: ZOOL-401 Part-I (Compulsory)

MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

- i. Neurogenic variations include:
A) change in colour B) changes after death C) polymorphism D) sexual differences
- ii. In a species with sexual dimorphism male and female belong to two different
A) taxon B) phenon C) category D) subspecies
- iii. The component species of a super species is known as
A) allospecies B) super species C) semispecies D) species
- iv. Subspecies belong to -----category.
A) specific B) higher C) infraspecific D) none
- v. At a given time only one name will be _____ for a taxon.
A) valid B) available C) valid and available D) none
- vi. The properties of taxa names are uniqueness, universality and
A) establishment B) stability C) commonness D) none
- vii. Evolutionary classification use ----- characters.
A) monophyletic B) paraphyletic C) polyphyletic D) All
- viii. Every specimen in type series from which no holotype is designated is known as
A) holotype B) paratype C) syntype D) lectotype
- ix. Taxa intermediate between subspecies and species are referred as
A) semispecies B) allospecis C) subspecies D) superspecies
- x. Morphologically similar but reproductive isolated species are called
A) subspecies B) type species C) sibling species D) superspecies



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PAPER: Principle of Systematics

Course Code: ZOOL-401 Part – II

MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2. Write short and precise answers of following questions. 2x10

- i. Differentiate between TYPOLOGICAL and NOMINALISTIC species concepts.
- ii. Differentiate between PARAPATRIC and PERIPATRIC speciation.
- iii. What is EVOLUTIONARY species concept.
- iv. Differentiate between HOLOTYPE, and NEOTYPE.
- v. Describe the concept of SUBSPECIES.
- vi. Differentiate between ALLOPATRIC and SYMPATRIC speciation.
- vii. Differentiate between HOMONYM and SYNONYMS.
- viii. Define PHEON.
- ix. What is LAW OF PRIORITY?
- x. What is TAXONOMIC KEY?

Q3. Write a detail note on the Types of TAXONOMIC CHARACTERS. (10)

Q4. . Compare the CLADISTIC and EVOLUTIONARY classification. (10)

Q5. Write a detail note on BIOLOGICAL SPECIES concept. In what conditions it did not apply on species. (10)