


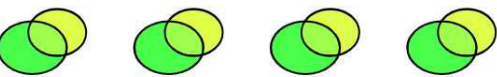
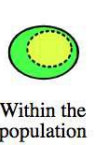
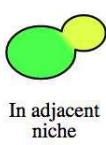
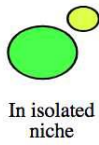
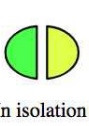
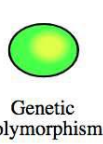
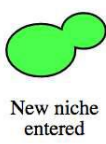
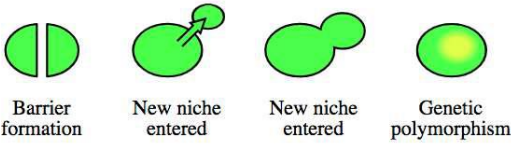
| Name: | |  | |
|---|---|--|-----|
| Enrolment No: | | | |
| UPES End Semester Examination, May 2024 | | | |
| Course: Fossils and Their Applications | | Time :03 hrs. | |
| Semester: IV | | Max. Marks: 100 | |
| Program: B.Sc. PCM (Honours) | | | |
| Course Code: PEGS 2033G | | | |
| Instructions: | | | |
| I. All questions are compulsory. | | | |
| II. Read question carefully and write appropriate answer. | | | |
| III. Write correct unit in numerical after calculation. | | | |
| IV. Draw neat diagram with proper labeling to explain the answer. | | | |
| SECTION A (5Qx4M=20Marks) | | | |
| Q. No. | | Marks | CO |
| 1 | Write about five different types of true fossils and explain difference between dubio-fossils and pseudo-fossils? | 4 | CO1 |
| 2 | Briefly describe various steps in fossilization and list five fossiliferous Palaeozoic palaeontological horizons of India? | 4 | CO2 |
| 3 | Define speciation and list different speciation models? | 4 | CO2 |
| 4 | Which agencies are responsible for erection of Geological Boundaries? | 4 | CO3 |
| 5 | Write short notes on different types of marine depositional environments? | 4 | CO4 |
| SECTION B (4Qx10M= 40 Marks) | | | |
| 6 | What are the acritarchs? Write characteristics morphological traits of different types of acritarchs. | 10 | CO4 |
| 7 | Name different scientific agencies involved in naming of Genus and Species that requires adherence to respective codes. Write in detail about ICN. | 10 | CO2 |
| 8 | What is an ichnofacies? List five different ichnofacies, their characteristic ichnofossil assemblage and their typical environment. | 10 | CO2 |
| 9 | Write different steps of fossilization. Give definition of taphonomy and what are amin Taphonomic processes? OR Discuss the fossilization process of flora and fauna with examples. | 10 | CO3 |
| SECTION-C (2Qx20M=40 Marks) | | | |
| 10 | Define the Index Fossil. Write the characteristics of ammonites and their role as Index Fossils? | 20 | CO3 |

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Describe general characteristics of Aves and the fossil which is considered a link between birds and reptile?

OR

Allopatric Peripatric Parapatric Sympatric



20

CO2

Briefly describe the above four types of speciation