MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture / B.Sc.(Hons.) A.B.M. / B.Tech.(Food Technology)

Semester	: 1 (New)	Term	: First	Academic Year	: 2023-24
Course No.	: BIO 111	Title	: Introductory Biology		
Credits	: 2 (1+1)				
Day & Date	: Thursday, 11.01.2024	Time	: 10:00 to 12:00 hrs.	Total Marks	: 40

Note :
1. Solve ANY EIGHT questions from SECTION 'A'.
2. All questions from SECTION 'B' are compulsory.
3. All questions carry equal marks.
4. Draw neat diagram wherever necessary.

SECTION 'A'

Q.1 Explain in brief the characteristics of life.

Q.2 Enlist different theories of origin of life and explain in brief Oparin-Haldane theory of chemical origin of life.

Q.3 Define Cell and differentiate between Mitosis and Meiosis cell divisions.

Q.4 What is Biological classification? Give the rules of binomial nomenclature system.

Q.5 What is Seed? Explain in brief the types of germination.

Q.6 Write characteristic features of family Fabaceae with examples.

Q.7 Define Morphology and explain in brief the structure of flower.

Q.8 Define Genetics and state the Mendel's laws.

Q.9 Explain in brief about the role of animals in agriculture.

Q.10 Write short notes on (Any Two):
a) Five Kingdom Classification
b) Modifications of stem
c) Inter-relationship between different organisms

SECTION 'B'

Q.11 Do as directed:
1) Define: Biodiversity.
2) Give two types of inflorescence.
3) What is Metabolism?
4) Write any two functions of nucleus.

Q.12 Fill in the blanks:
1) _____ is the change in the characteristics of a species over several generations.
2) _____ is called as the powerhouse of cell.
3) Fruit of wheat is known as _____.
4) _____ is a place, where dried and pressed plant specimens are mounted on sheets and kept systematically for classification.

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