MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

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

Semester	**: I (New)**	**Term**	**: I**	**Academic Year**	**: 2017-18**
Course No.	**: BIO 111**				
Credits	**: 2(1+1)**	**Title**	**: Introductory Biology**		
Day & Date	**: Friday, 29.12.2017**	**Time**	**: 14.00 to 16.00**	**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 diagrams wherever necessary.

SECTION "A"

Q.1 What is meant by living organism? Explain characteristics /features of living organisms.

Q.2 Define cell cycle. Draw neat labeled diagram of cell cycle and explain in brief the different phases of cell cycle.

Q.3 State the laws of inheritance based on Mendel's experiment and explain any one with suitable example.

Q.4 What is binomial nomenclature? Explain it with suitable example and give universal rules of nomenclature.

Q.5 Define taxonomy. Enlist and explain in brief various taxonomic categories.

Q.6 Describe modifications of stem and root with suitable examples.

Q.7 Define seed. Enlist the types of seed germination and explain the factors affecting seed germination.

Q.8 Enlist and explain in brief main theories of evolution.

Q.9 Write short notes (Any Two).
a) Significance of taxonomical classification
b) Role of animals in agriculture.
c) Diversity

Q.10 Distinguish between the following (Any Two).
a) Racemose and Cymose inflorescence
b) Dicotyledonae and Monocotyledonae
c) Mitosis and Meiosis.

SECTION "B"

Q.11 Fill in the blanks.
1) A taxonomic group of closely related genera is known as_____.
2) The mode of arrangement of leaves on the stem and the branch is known as _____.
3) The term 'classification' was coined by_____.
4) _____is the most important event during prophase –I.

Q.12 Define the following terms.
1) Division
2) Synonym
3) Placentation
4) Inflorescence

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