

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	Title	: Introductory Biology		
Credits	: 2(1+1)				
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

