

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE  
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: I (New)	Term	: First	Academic Year	: 2022-23
Course No.	: H/BIO 111	Title	: Introductory Biology		
Credits	: 2 (1+1)	Time	: 10:00 to 12:00 hrs.	Total Marks	: 40
Day & Date	: Friday, 24.03.2023				

- 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 What are the different types of seed germination? Explain any one with suitable examples.
- Q.2 Define respiration and explain the process of glycolysis.
- Q.3 What is binomial nomenclature? Explain it with suitable example.
- Q.4 Define double fertilization and give its significance.
- Q.5 Describe the vegetative and reproductive plant parts with diagram and functions.
- Q.6 Differentiate between Plant cell and Animal cell.
- Q.7 Define mitosis. Explain stages of mitosis with the help of diagrams.
- Q.8 Define flower. Write down different parts of typical flower.
- Q.9 Explain the structure of monocot seed with well labeled diagram.
- Q.10 Define cell. Write down the different cell organelles along with their functions.

SECTION 'B'

- Q.11 Define the following terms:

- 1) Biotechnology
- 2) Taxonomy
- 3) Growth
- 4) Photosynthesis

- Q.12 Fill in the blanks:

- 1) In RNA, thymine is replaced by \_\_\_\_\_.
- 2) \_\_\_\_\_ is also called as the amphibian of Plant kingdom.
- 3) Fusion of male and female gametes is referred to as \_\_\_\_\_.
- 4) Ginger is an example of \_\_\_\_\_ type of stem modification.

