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	: 2018-19
Course No.	: BIO 111	Title	: Introductory Biology		
Credits	: 2(1+1)				
Day & Date	: Tuesday, 18.12.2018	Time	: 09.00 to 11.00	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 do you mean by living organism? Explain the characteristics of living organisms.

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

Q.3 Define Seed Germination. Explain in brief its types and method of germination testing.

Q.4 Differentiate between (Any Two).

a) Dicotyledon and Monocotyledon

b) Racemose inflorescence and Cymose inflorescence

c) Mitosis and Meiosis

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

Q.6 Describe modifications of stem with suitable examples.

Q.7 State Mendel's laws and explain any one with suitable example.

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

Q.9 Write short notes (Any two).

a) Significance of taxonomical classification b) Role of animals in agriculture

c) Diversity

Q.10 What is Binomial nomenclature? Explain with suitable example and give universal rules of nomenclature.

SECTION "B"

Q.11 Fill in the blanks.

1) A group of flowers closely borne on a common axis is called _____

2) A taxonomic group of closely related genera is known as_____.

3) The _____lies outer to the xylem.

4) _____is the most important event in Pachytene stage of Prophase I.

Q.12 Define the following terms.

1) Division 2) Synonym

3) Placentation 4) Pedicel

✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧

agromind.in

Telegram - AgroMind