## MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION (E) ARIGH UNF SEMESTER END EXAMINATION

## B.Sc. (Hons.) Horticulture

Semes	
Course Credit	Title : Introductory Blology
	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	Define diversity. Give the objectives of systematics.
Q.2	Define nomenclature. Explain the Binomial nomenclature.
Q.3	Define cell. Give the difference between plant cell and animal cell.
Q.4	Describe the structure of DNA as proposed by Watson and Crick.
Q.5	Define mitosis. Explain the different stages of mitosis. Give the significance of meiosis.
Q.6	State Mendel's Law of inheritance. Explain any one of them with suitable example. Why did Mendel select garden pea for his experiment?
Q.7	Give characteristics of meristematic tissue and enlist the classification of meristematic tissue.
Q.8	Define seed. Explain the structure of monocotyledonous seed (Maize).
Q.9	Define photosynthesis. Explain in brief Calvin cycle.
Q.10	Define Respiration. Explain the factors affecting respiration.
	SECTION "B"
Q.11	Fill in the blanks.
	1) The term classification was coined by
	2) The first vascular plants are
	3) Exchange of genetic material takes place during
	4) The end product of glycolysis is
Q.12	Define the following terms.
	1) Embryo
	2) Seed Germination
	3) Biotechnology
	4) Somatic cell

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