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GIET UNIVERSITY, GUNUPUR – 765022
B. Sc. (Ag.) (First Semester) Examinations, March – 2023
BB-111 – Introductory Biology

Time: 2 hrs

Maximum : 50 Marks

The figures in the right hand margin indicate marks.

PART – A

Q.1. Fill in the blanks with suitable word / figure.

(0.5 x 10 = 5 Marks)

- a. Human is the warm blooded animal whereas frog is the _____ animal.
- b. _____ is the structural and functional unit of all living organisms.
- c. Cell wall is basically composed of _____.
- d. _____ is a type of cell division that produces gametes for sexual division.
- e. Vascular tissue in plant consists of _____ and phloem.
- f. Stem developed from _____ part of the germinating seed.
- g. The family of rice is _____.
- h. True fruit develops from _____ part of the flower.
- i. Monocot leaves have _____ venation.
- j. Ginger is the modified _____.

Q. 2. Define (or) Explain the following in one or two sentences.

1 x 5 = 5 Marks)

- a. Define tissue.
- b. Define metabolism.
- c. What is binomial nomenclature?
- d. What is DNA?
- e. What is sexual reproduction?

Q3. Match the following

(0.5 x 10 = 5 Marks)

Column – A		Column – B	
(a)	Calyx	(i)	Embryo of plant
(b)	Corolla	(ii)	Areal part of plant
(c)	Gynoecium	(iii)	Green coloured part that protect the flower bud
(d)	Androecium	(iv)	Edible structure develop from wall of the ovary
(e)	Leaf	(v)	Colourful part to attract pollinators
(f)	Root	(vi)	Opening on leaves for gaseous exchange
(g)	Seed	(vii)	Female reproductive structure
(h)	Stem	(viii)	Male reproductive structure
(i)	Fruit	(ix)	Used for photosynthesis
(j)	Stomata	(x)	Underground part of the plant

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. Locomotion is one of the characteristics of life.
- b. Mushroom is a fungus.
- c. Bacteria possess prokaryotic cell.
- d. Most of the plants have autotrophic nutrition.
- e. Photosynthesis require oxygen.
- f. In taxonomic hierarchy the smallest group is genus.
- g. The botanical name of our national tree is *Ficus bengalensis*.
- h. Mosses belong to the division Pteridophyta.
- i. The perianth is the vegetative part of the flower.
- j. Bamboo is a dicot plant.

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

5. Write an essay on origin of life on earth.
6. Illustrate the different stages of mitosis.
7. Describe different structural components of a typical plant cell.
8. Describe different parts of a typical flower.
9. Give an account of role of animals in agriculture.
10. Diagrammatically shows different parts of a flowering plant. Differentiate between monocot plant and dicot plant.

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