



Registration No:

Total Number of Pages : 2 AR-2019

B.Sc (Ag.) 1ST SEMESTER EXAMINATIONS (REGULAR),NOV/DEC 2019

BB-111

INTRODUCTORY BIOLOGY

Time : 2 Hours

Maximum : 50 Marks

(Answer all questions of Section – A)

SECTION – A

Q.1 Fill up the Blanks with suitable and meaningful word(s): [0.5 X 10 = 5]

- a _____ is the basic biological unit in the linnaean system of classification?
- b Eukaryotic cell has true -----
- c Plastid is present in -----cell
- d Most of the life of any cell is spent in a period of growth called-----
- e The process by which new species develop from the existing species is called-----?
- f -----Organelle, serves power house of the cell.
- g Photosynthesis takes place in -----organelle of the cell
- h Meiosis makes -----number of daughter cells.
- i Bamboo is an example of family-----
- j First structure develops from embryo during germination-----

Q.2. Define or Explain the following in one or two sentences [5 × 1 = 5]

- a) What do you mean by diversity of life?
- b) Explain the significance of Binomial nomenclature?
- c) Define the term evolution?
- d) Explain the characteristics of Living organism?
- e) Explain the role of animals in agriculture?

Q.3. Match the following [10 × 0.5 = 5]

Column-I

a.Endoplasmic Reticulam

Column-II

i.Photosynthesis

b.Ribosomes

ii.Protein modification

c.Nucleus

iii.Protein transport

d.Mitochondria

iv.Protein synthesis

e.Choloroplast

v.Pairing of homologous chromosome



- | | |
|------------------|--|
| f. Golgi complex | vi. Terminalisation of Chiasmata |
| g. Diakinesis | vii. Crossing over takes place |
| h. Pachytene | viii. Chromosomes |
| i. Zygotene | ix. Chromosome align at equatorial plane |
| j. Metaphase-I | x. ATP synthesis |

Q.4. Write TRUE or FALSE against the following statements [10 × 0.5 = 5]

- a. In binomial nomenclature, second name represent species.
- b. Bacteria contains single chromosome and cell division occurs through fission or budding?
- c. Body parts found in different species that are functionally similar are said to be homologous structures
- d. Living things rely on other living things to stay alive.
- e. Mitosis produces four daughter cells.
- f. The phase in which a cell replicates its DNA is M-phase
- g. Prokaryotic cell don't have true nucleus.
- h. The largest subunit of prokaryotic ribosome is 60S.
- i. Plant cell has both cell membrane and cell wall.
- j. Plasma membrane is composed of protein and lipid.

SECTION – B: (Short Answer Questions)

(Attempt any five questions. Each question carries equal marks) [5 x 6 =30]

- Q.5 Explain the principle and methodology of binomial nomenclature?
- Q.6 Describe the diversity of living organism?
- Q.7 Give a detailed structure of prokaryotic cell with description?
- Q.8 Explain the role of animals in agriculture?
- Q.9 Define Meiosis? Describe various stages of meiosis?
- Q.10 Describe the morphological characteristic of family Brassicaceae?