

Royal College of Arts Science and Commerce
F.Y.B.Sc.
Semester I
Sample Questions
Botany Paper II

Instructions:

- 1) Fill in the blanks with the most appropriate option
- 2) Each question is for 1m in Section I
- 3) Each question is for 2m in Sections II and III Section I

Section I

1. Cell wall is absent in _____
 - a. Plant cell
 - b. Animal cell
 - c. Parenchyma cell
 - d. Collenchyma cell
2. Middle lamella of plant cell wall is mainly composed of _____
 - a. Cellulose
 - b. W
 - c. Hemi-cellulose
 - d. Lignin
3. _____ percent of world population is fresh water
 - a. 19
 - b. 27
 - c. 3
 - d. 71
4. In recessive epistasis, the Mendel's dihybrid ratio of 9:3:3:1 is modified to _____
 - a. 15:1
 - b. 9:7
 - c. 9:3:4
 - d. 12:3:1

Section II

5. What does the nucleus of any organism contain?
 - a. Cytoplasm
 - b. DNA
 - c. Plasmalemma
 - d. Cell wall
6. Which among these is a lotic water ecosystem
 - a. Rivers
 - b. Pools
 - c. Ponds
 - d. Lakes

7. Who was the scientist that included decomposers in the energy flow model?
- Lindeman
 - Odum
 - Tansley
 - Ernst Haeckel
8. When F1 individual is crossed with any one of the parents or an individual whose genotype is similar to one of the parents is called _____
- Back cross
 - Test cross
 - Reciprocal cross
 - Check cross

Section III

9. Which part of chloroplast brings about synthesis of carbohydrate
- Grana
 - Membrane
 - Stroma
 - Nucleus
10. Find the odd one out
- Eichhornia
 - Opuntia
 - Nerium
 - Vinca
11. When a tall plant with round seeds (TTRR) is crossed with a dwarf plant with wrinkled seeds (ttrr), the F1 generation consists of tall plants with rounded seeds. _____ type of gametes are produced by the F1 plant
- 1
 - 3
 - 4
 - 8
12. The type of inheritance pattern where neither gene dominates completely over the other and partially expresses itself is called _____ inheritance.
- Dominant
 - Intermediate
 - Recessive
 - Epistatic