

## **BRAIN INTERNATIONAL SCHOOL**

**Biology Assignment**

**Class XI**

**Apr '18**

### **CH: Living World**

1. Explain the guide lines for naming of an organism.
2. Write the taxonomical hierarchy of rice.
3. What do you mean by taxonomical aids? Give three examples.
4. Write the taxonomical hierarchy of tiger.

### **CH: Biological Classification**

5. Explain the criteria for Whittaker's classification.
6. Differentiate the types of bacteria according to their shape.
7. Explain the different groups of protists?
8. What are bacteriophages? Give two examples.
9. Distinguish between phycomycetes and dueteromycetes.

### **CH: Cell Cycle and Cell Division**

10. Why is mitosis also known as equational division?
11. What are chiasmata? Give their significance.
12. Why does a multicellular organism require two types of cell division?
13. How does anaphase-1 of meiosis differ from anaphase of mitosis?
14. What are homologous chromosomes?
15. Why is meiosis known as reduction division?
16. Draw the different stages of mitosis and label it.
17. Supply a specific scientific term for each of the following
  - (a) The period between two successive mitotic divisions
  - (b) Process of cell division by which the chromosome number is halved.
  - (c) Point at which two sister chromatids are held together.
  - (d) Phase in the cell cycle when RNA is synthesised.
  - (e) Nuclear division.

### **CH: Cell the Unit Of Life**

18. Distinguish between
  - (a) Cytoplasm and nucleoplasm.
  - (b) Chromatin and chromosome.
  - (c) Microtubule and microfilament.
  - (d) Leucoplast and chromoplast.
19. List the functions of Golgi bodies.
20. Explain the structure of flagella.