



# Anand Niketan

## Maninagar Campus

Grade : XI

Subject : Biology

WORKSHEET Emp 1

1. Name one monocot & one dicot in which endosperm is present?
2. Why are date palm referred to as dioecious?
3. What is placentation?
4. What is Rhizome? Give its two examples.
5. Differentiate between epigynous & perigynous flowers.
6. Give reason to justify that onion bulb is a modified stem?
7. Describe the parts of a typical angiospermic leaf?
8. Differentiate between a maize grain & a bean seed?
9. Describe the various types of placentations found in flowering plants & represent diagrammatically.
10. Name two specialized kinds of parenchyma.
11. What is the function of companion cells in phloem?
12. Define meristem.
13. Why is cambium considered to be a lateral meristem?
14. Mention four characteristics of sunflower's vascular bundles.
15. Differentiate between tracheids & vessels.
16. Explain the structure & function of collenchyma.
17. What are sieve elements? Explain their types & functions.
18. Describe the internal structure of a monocot root with the help of a labeled diagram.
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28. Which is the important energy carrier in the cell? Where is it formed?
29. Name the monomer subunits which form nucleic acids on polymerization?
30. What are macromolecules? Give example.
31. Differentiate between nucleotide & nucleoside?
32. How are glycosidic bonds formed?
33. What do you mean by steady state condition?
34. Enumerate the functions of lipids?
35. Describe the lock & key hypothesis of enzyme action?
36. Explain briefly four levels of protein structure?
37. Define enzymes. Explain how an enzyme catalyses the reaction. Name the factors which affect the rate of enzyme action.
38. Name the stage of cell division in which paired homologous chromosomes get shortened & thickened.
39. Which structure of animal cell forms the asters of the spindle?
40. Name the cells in which meiosis occurs.
41. What is the importance of DNA replication during interphase?
42. Distinguish between metaphase of mitosis & metaphase I of meiosis.
43. What is the approximate cell cycle duration in fast-dividing mammalian cells? Is this the same for all cells?
44. What is the significance of meiosis?
45. Differentiate between the mitosis of animal cell & plant cell.
46. Explain the various phases of meiosis II division.

47. Define totipotency?
48. Name two cell organelles which contain their own DNA?
49. Which cell organelle functions as “segregation apparatus”?
50. Give two examples of gram positive bacteria?
51. What is the significance of plasma membrane?
52. Differentiate between gram positive and gram negative bacteria?
53. Why lysosomes are called “suicidal bags”?
54. Explain the functions of centrosome?
55. What is meant by active transport across a cell membrane?
56. Describe the ultrastructure of a cillium or flagellum?
57. Distinguish between prokaryotic & eukaryotic cell?