

SSR DEGREE COLLEGE, NIZAMABAD(5029)

DEPARTMENT OF BOTANY SEMESTER-IV INTERNAL-1 EXAM QUESTION BANK

Fill in the Blanks

1. The Cell is not applied for _____ (virus)
2. Which organelle is involved in apoptosis _____ (Mitochondria)
3. The function of the centrosome is _____ (Formation of spindle fibre)
4. A cell without a cell wall is termed as _____ (protoplast)
5. Lysosomes are known as "Suicidal bags" because _____ (Hydrolytic activity)
6. A Plant cell wall is mainly composed of _____ (cellulose)
7. _____ Cell organelles does not contain (Lysosomes)
8. _____ Cell organelles is involved in the storage of food, and other nutrients, required for a cell to survive (vacuoles)
9. _____ is involved in the synthesis of phospholipid (smooth endoplasmic reticulum)
10. _____ is a functional unit of a body (cell)
11. RNA is present in _____ cell organelles (Ribosomes)
12. The term chromosome was coined by _____ (Waldeyer)
13. Who was the first person to observe the chromosomes _____ (Hofmeister)
14. _____ and _____ coined their term 'Meiosis' (Farmer and Moore)
15. Nuclear DNA replicates in the _____ ('S' phase)
16. The longest stage in the cell cycle is _____ (interphase)
17. The term 'cell' was given by _____ (Robert Hooke)
18. Distribution of intrinsic proteins in the plasma membrane is _____ (Asymmetrical)
19. _____ is a jelly like substance found floating inside the plasma membrane (cytoplasm)

20. _____ cell organelles is present in plant cells and absent in animal cells (chloroplast)
21. Who is known as the Father of Genetics _____ (Mendal)
22. The genotypic ratio of a monohybrid cross is _____ (1 : 2 : 1)
23. The alternate form of a gene is _____ (Allele)
24. Homozygosity and heterozygosity of an individual can be determined by _____ (Test cross)
25. The smallest unit genetic material which produces a phenotypic effect on mutation is _____(muton)
26. Genetic code was discovered by _____ (Holley, Nirenberg and Khorana)
27. The phenomenon of linkage was first observed by _____ (Betson and Punnet)
28. Exosmosis takes place when a plant cell is pull in _____Hypertonic solution)
29. The tendency of an off spring to resemble its parents is known as _____ (heredity)
30. Pea plants were used in Mendel's experiments because _____ (they had contrasting characters)
31. 9:7 ratio in the F2 generation represents _____(Epistasis)
32. Cystic fibrosis is _____ (Autosomal recessive disorder)
33. If a plant with genotype AaBb is self fertilized, the probability of getting AABB genotype
Will be _____ (1/16)
34. The geometrical device that helps to find out all the possible combinations of a male and female gametes is known as _____ (Punnet square)
35. Which is the Genetically modified plant crop _____ (Bt-brinjal, Golden rice)
36. The mutation caused by the addition or deletion to nitrogenous bases in DNA or mRNA are known as _____(frame shift)
37. crossing over occur in _____ phase of Meiosis-I (Prophase-I)
38. A cross between heterozygous F1 hybrid (Tt) and the dominant parent(TT) is called _____ (Black cross)
39. A cross between heterozygous F1 hybrid (Tt) and the double reseeive homozygous parent(tt) is called _____ (Test cross)

40. Breakage of chromosome occur and as result crossing over occur and genes enter gametes after crossing over this is known as _____ (incomplete linkage)

Short Answer Questions

1. Mitosis
2. Karyotype
3. Euchromatin
4. Plasmids
5. Heterochromatin
6. Deletions
7. Test cross
8. Linkage
9. Mutations
10. Crossing over