



Bio G10- Q1 Exam-online

Qs . Complete using scientific terms from the list you have:

- | | |
|---------------------|------------------|
| A. Meiosis – | H. Mitosis – |
| B. Lipids – | I. Homologous – |
| C. Haploid – | J. Amino acids – |
| D. Cell plate – | K. Genes – |
| E. Macromolecules – | L. Cytokinesis – |
| F. Chromatids – | M. Interphase) |
| G. Alleles – | |
-
1. Large molecules formed by joining smaller organic molecules together -----
 2. Are composed of glycerol and fatty acids. -----
 3. Proteins are made of monomers called. -----
 4. Produces two genetically identical cells. -----
 5. Cell is made of half set of chromosomes. -----
 6. Chromosomes are made from two sister. -----
 7. Chromosomes having the same arrangement of genes and each one is inherited from one of the parents.
 8. Alternative forms of a gene. -----
 9. Stage where cytoplasm divide. -----
 10. Divides the plant cell during cytokinesis in to two cells. -----

Qs . Choose the correct answer:

11. The DNA replication takes place in

- a. G1 phase
- b. S phase
- c. G2 phase
- d. Mitosis

12. Normal body cells are called

- a. Somatic cells
- b. Gamete cells
- c. Germ cells
- d. Sperm cells

13. The longest phase of the cell cycle is called

- a. Interphase
- b. Mitosis
- c. Meiosis
- d. Cytokinesis



14. **The number of cells formed by mitosis are**

- a. 2
- b. 8
- c. 4
- d. 16

15. **----- is an example of homozygous recessive gene.**

- a. RR
- b. rr
- c. Rr
- d. XX

16. **Sucrose is made from**

- a. Fructose and glucose
- b. Fructose and maltose
- c. Glucose and glucose
- d. Galactose and glucose

17. **Starch is a ----- carbohydrate.**

- a. Monosaccharide
- b. Disaccharide
- c. Polysaccharide
- d. Monomer

18. **Which is a structure common to all cells?**

- a. mitochondria
- b. nucleus
- c. endoplasmic reticulum
- d. plasma membrane

19. **Which organelle is large in plant cells but small or absent in animal cells?**

- e. centriole
- f. chloroplast
- g. nucleolus
- h. vacuole

20. **Which movement of substances through a cell membrane against a concentration gradient requires energy?**

- a. osmosis
- b. diffusion
- c. active transport
- d. facilitated diffusion

Qs. Match by writing the letter beside the correct number:

- A. Ribosomes
- B. Cellulose
- C. Smooth endoplasmic reticulum
- D. Vacuoles
- E. Nucleolus
- F. Centrioles

- 21. Makes ribosomes ----- .
- 22. produces proteins -----
- 23. Forming cell wall of the plant -----
- 24. produces lipids -----
- 25. Found in animal cells only and helps in cell division -----
- 26. stores cell materials -----

Qs. Complete the following sentences using from A to H:

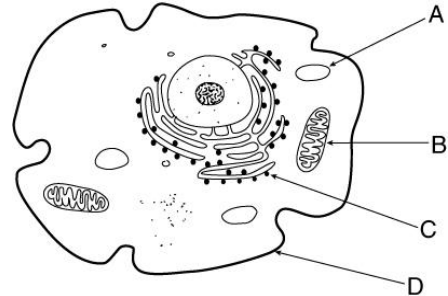
- | | | |
|--------------|---------------|---------------|
| A. anaphase | B. prophase | C. glucose |
| D. S | E. fatty acid | F. prophase I |
| G. metaphase | H. telophase | |

- 27. The chromosomes line up at the equator of the cell in phase -----
- 28. Nuclear envelope disappears in ----- phase.
- 29. Nuclear envelope is reformed in -----phase.
- 30. Sister chromatids are separated in ----- phase.
- 31. Crossing over in meiosis takes place in ----- phase.
- 32. Maltose is made from -----and glucose.
- 33. Interphase is formed from G1, ----- and G2 phases.
- 34. Lipids are made from ----- and glycerol.

Qs. Label:

- L. cell membrane
- M. chloroplast
- N. rough endoplasmic reticulum
- O. mitochondria
- P. lysosomes)

35. Structure A is:
 36. Structure B is:
 37. Structure C is:
 38. Structure D is:



Qs. Complete the following Punnet Squares.

B= Brown eyes b= blue eyes Mom= Bb Dad= Bb

39. What are the eye color possibilities if they chose to have children? B

- A- i is BB and ii is bb
- B- i is Bb and ii is bb
- C- i is BB and ii is Bb
- D- i is Bb and ii is bB

	B	b
B	BB	Bb
b	(i)	(ii)

40. Curly hair is recessive, and straight hair is dominant. A woman with curly hair marries a man who is heterozygous for straight hair.
 Predict the genotype outcomes for their children.

- A. i is Ss and ii is Ss
- B. i is ss and ii is ss
- C. i is sS and ii is SS
- D. i is sS and ii is ss

	S	s
S	Ss	Ss
s	(i)	(ii)

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