



ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION



WORKSHEET – 7

Class: X

Sub: Life Science

Date: 05.07.2021

Topic: Ch 2 Continuity of Life: Cell cycle and Mitosis

F.M. : 15

Choose the correct option:

(1x15=15)

1. What functions are performed by a cell during interphase?
a) Constant synthesis of RNA b) Production of protein c) Increase in size d) All of these
2. Which phase acts as a temporary or permanent resting period in cell cycle?
a) Gap 0 (G₀) b) Gap 1 (G₁) c) S d) Gap 2 (G₂)
3. G₁ checkpoint ensures that everything is ready for ____ synthesis.
a) protein b) RNA c) DNA d) none of these
4. What functions does G₂ checkpoint perform?
a) Determines if the cell can proceed to enter M phase and divide b) Ensures that all chromosomes have been replicated accurately without any damage or mistake c) a and b d) None of these
5. Uncontrolled cell division can lead to formation of _____.
a) muscle b) tumour c) tissue d) growth
6. Which type of animal cells show mitosis?
a) Meristematic, embryonic and stem cells b) Embryonic, germinal epithelium and meristematic cells c) Germinal epithelium, embryonic and stem cells d) None of these
7. Anastral spindle formation is seen in _____.
a) plants b) animals c) algae d) fungi
8. _____ is marked by the appearance of spindle and arrangement of chromosomes on the equator of the spindle
a) Prophase b) Metaphase c) Anaphase d) Telophase
9. Simultaneous splitting of chromosomes at the centromeres creates _____.
a) daughter chromosome b) sister chromatid c) kinetochores microtubule d) none of these
10. _____ is the division of cell cytoplasm into two separate cells.
a) Meiosis b) Mitosis c) Karyokinesis d) Cytokinesis
11. Mitosis helps organisms in the _____ reproduction
a) sexual b) asexual c) vegetative d) none of these
12. What are the significances of mitosis?
a) Growth and development b) Replacement of old cells c) Regeneration d) All of these

13. Mitosis maintains equilibrium in the amount of _____ contents.
a) DNA b) RNA c) a and b d) protein
14. The cells undergoing mitosis are called _____.
a) mitocytes b) somatic cells c) germ cells d) cancer cells
15. Cytokinesis usually occurs in _____ along with the formation of daughter nuclei.
a) prometaphase b) metaphase c) prophase d) telophase

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