



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Biological Sciences Class: XI Date: 09.11.2020

## Cell Division and Cell Cycle

F.M:15

### WORKSHEET – 49

(1x15=15)

- i) Which of the following is not a phase of interphase?  
(1) G1 phase (2) G2 phase (3) S phase (4) Telophase
- ii) G0 phase is observed in  
(1) Mammalian RBC (2) Nerve cell (3) Liver cell (4) All of these
- iii) The DNA doubles at  
(1) G1 phase (2) S-phase (3) G2 phase (4) All of these
- iv) When the cell remains metabolically active, grow in size, assume a particular shape and come to a particular function, it is said to be -  
(1) Differentiated (2) De-differentiated (3) Re-differentiated (4) Divided
- v) The first check point lies between  
(1) G2 and M (2) S and G2 (3) G1 and S (4) M and G1
- vi) CDK binds to -  
(1) Histone (2) Globulin (3) Albumin (4) Cyclin
- vii) In G1 phase, CDK becomes active by-  
(1) G1 cyclin (2) S- cyclin (3) G2 cyclin (4) M-Cyclin
- viii) At the end of M phase, the cell enters G1 phase when mitotic cyclin is  
(1) Activated (2) Inactivated (3) Formed (4) Degraded
- ix) RNA and proteins are formed at  
(1) G1 phase (2) G2 phase (3) Both G1 and G2 phase (4) M phase
- x) If the amount of DNA is 8N at G1 phase, then the amount at S and Prophase respectively will be  
(1) 8N, 16N (2) 8N, 8N (3) 8N, 4N (4) 4N, 8N
- xi) The duration of M –phase is approximately  
(1) 2 hours (2) 1 hour (3) 12 hours (4) 6-8 hours
- xii) A cell spends its maximum duration at -  
(1) G1 phase (2) S-phase (3) G2 phase (4) M-phase
- xiii) Which of the following does not double at S –phase?  
(1) Set of genes (2) DNA content (3) Chromatin fibres (4) Chromosome number
- xiv) Amoeba divides by the process of  
(1) Mitosis (2) Amitosis (3) Meiosis (4) All of these
- xv) Which of the following organisms divide amitotically?  
(1) Bacteria (2) Yeast (3) Amoeba (4) All of these

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