



# 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 (Answers)

(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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