

## **BIOLOGY BOOKLET**

**TEACHER:** \_\_\_\_\_

**CLASS/SEC:** \_\_\_\_\_

**NAME:** \_\_\_\_\_

**PREPARED BY**

**MS. ASMAT NAZ**

# Chapter # 5

## CELL CYCLE

**Definition:**

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Phases:

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Diagram:

Mitosis.

Definition:

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Phases:

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Diagram:

Meiosis.

Definition:

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Phases:

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Diagram:

Definitions:

Metastasis:

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Non-disjunction:

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Interkinesis:

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Interphase:

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Q. How is mitosis in animal cell different from plant cell?

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# CHAPTER # 6

## ENZYMES

**Definition.**

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**Activation energy:**

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**Cofactors:**

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**Coenzyme:**

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**Prosthetic group:**

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**Q:** Give a graphical representation of the factors affecting enzyme activity.

**1. Temperature:**

2. Substrate concentration:

3. PH:

Q: Differentiate between cofactor and coenzyme .

Q. Draw a diagram to show models suggested for mechanism of enzyme action.

## Chapter # 7

### **BIOENERGETICS**

Q. Draw a flow chart to show energy transformation in living organisms.

Q. How can electrons serve as an energy source?

Q. What is ATP? Give its functions also draw a diagram to show its structure.

Q. Define photosynthesis. Draw a diagram to show summary of photosynthesis.

Define:

Light reaction:

Dark reaction:

Diagram of Z – scheme:

Diagram of Calvin cycle:



Q. Write down equations to show mechanism of aerobic respiration?

Q. Draw a diagram to show energy calculation during oxidation of glucose.

## Chapter # 8

### NUTRITION

Define:

Mastication:

Salivary glands:

Bolus:

Diagram of Oral cavity:

Define :

Gastic glands:

Gastric juice:

Churning:

Chyme :

Diagram of stomach:

## **Digestion in small intestine**

Parts of small intestine:

Definition of Villi:

Absorption of food in blood:

Structure of villus:

## Role of large intestine

Parts of large intestine:

Definition of faeces:

Bile:

Emulsification:

Role of liver other than digestion:

## Chapter # 9

### Transport

Q . Draw the structure of leaf to show transpiration?

Diagram of stomata:

Define;

transpiration pull:

cohesion tension theory:

causes of transpiration pull:

diagram of transport of water:

Q . Draw a diagram to show transport of food?



Q. Give an account of composition of blood plasma?

Q . Draw structure of human heart , also write flow chart to show blood circulation in human body?

Comparison of pulmonary and systemic circulation with the help of diagram:

Draw a flow chart to show flow of blood in Arterial and Venous system.

**NAME :**

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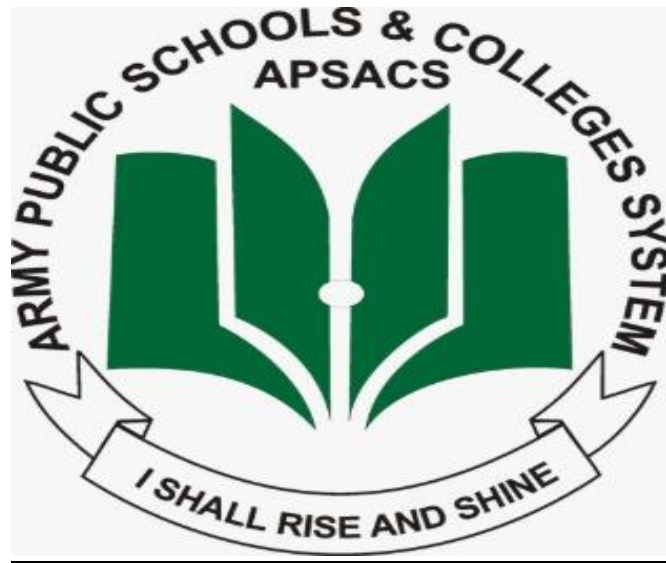
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**SUBJECT:**

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**TEACHER:**

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