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## Contents

<b>DNA Replication</b>	<b>2</b>
Number of DNA formed in DNA Replication . . . . .	2
Similarity of DNA formed in DNA Replication . . . . .	2
Source of DNA replication . . . . .	2
Product in DNA replication . . . . .	2
Nature of process of DNA replication . . . . .	2
Precision in DNA replication . . . . .	2
Genetic Need for DNA replication . . . . .	3
Time for DNA replication at cell cycle . . . . .	3
Time for DNA replication at interphase . . . . .	3
<b>Types of DNA Replication</b>	<b>3</b>
Conservative model . . . . .	3
Function of parental DNA in conservative model of DNA . . . . .	3
Age of DNA molecules in conservative model of DNA . . . . .	4
Dispersive model . . . . .	4
Activities in dispersive model of DNA . . . . .	4
Function of fragments of parental DNA in dispersive model of DNA . . . . .	4
Strands of daughter DNA molecules in dispersive model of DNA . . . . .	4
Semi Conservative model . . . . .	4
Propounders of semi conservative model of DNA . . . . .	4
Date of proposal of semi conservative model of DNA . . . . .	5
Experimental biologist to verify semi conservative model of DNA . . . . .	5
Date of experimental verification of semi conservative model of DNA . . . . .	5
Conservation of parental DNA in semi conservative model of DNA . . . . .	5

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## **DNA Replication**

### **Number of DNA formed in DNA Replication**

The number of DNA formed in DNA Replication is

- $2$

### **Similarity of DNA formed in DNA Replication**

The DNA formed in DNA replication are identical.

### **Source of DNA replication**

The source of DNA replication is

- Parental DNA

### **Product in DNA replication**

The product in DNA replication is

- Daughter DNA

### **Nature of process of DNA replication**

The nature of process of DNA replication is

- autocatalytic

### **Precision in DNA replication**

The precision in DNA replication is expressed as

- DNA replication is errorless mechanism.

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### **Genetic Need for DNA replication**

The genetic need for DNA replication is

- DNA replication maintains genetic stability.

### **Time for DNA replication at cell cycle**

The time for DNA replication at cell cycle is

- DNA replication occurs at interphase of cell cycle.

### **Time for DNA replication at interphase**

The time for DNA replication at interphase of cell cycle is

- DNA replication occurs at *S* phase.

## **Types of DNA Replication**

The types of DNA replication model are

- Conservative model of DNA replication
- Dispersive model of DNA replication
- Semi conservative model of DNA replication

### **Conservative model**

#### **Function of parental DNA in conservative model of DNA**

The function of parental DNA in conservative model of DNA is

- Parental DNA synthesizes daughter DNA

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### **Age of DNA molecules in conservative model of DNA**

The age of one daughter molecule of DNA in conservative model of DNA is

- Completely new

The age of another daughter molecule of DNA in conservative model of DNA is

- Completely old

### **Dispersive model**

#### **Activities in dispersive model of DNA**

The activities in dispersive model of DNA are

- Breakdown of parental DNA
- Synthesis of daughter DNA

#### **Function of fragments of parental DNA in dispersive model of DNA**

The function of fragments of parental DNA in dispersive model of DNA is

- Fragments of parental synthesize new DNA strands

#### **Strands of daughter DNA molecules in dispersive model of DNA**

The composition of strands of daughter DNA in dispersive model of DNA are

- Parent DNA strands
- New DNA strands

### **Semi Conservative model**

#### **Propounders of semi conservative model of DNA**

The propounders of semi conservative model of DNA are

- Watson and Crick

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**Date of proposal of semi conservative model of DNA**

The date of proposal of semi conservative model of DNA is

- 1953

**Experimental biologist to verify semi conservative model of DNA**

The experimental biologists to verify semi conservative model of DNA are

- Messelson and Stahl

**Date of experimental verification of semi conservative model of DNA**

The date of experimental verification of semi conservative model of DNA is

- 1958

**Conservation of parental DNA in semi conservative model of DNA**

The conservation model of parental DNA in semi conservative model of DNA is

- The parental DNA fragments are partially conserved.