

**GIRLS' HIGH SCHOOL COLLEGE, PRAYAGRAJ**  
**2020-2021**  
**CLASS XII A**  
**SUBJECT-BIOLOGY**  
**LESSON: MOLECULAR BASIS OF INHERITANCE**  
**E-LEARN ASSIGNMENT WORKSHEET NO-03**

**INTRODUCTION:**

1. Parents please ensure that your ward watches the video instructions for the assignment by clicking on the given links:
  1. <https://youtu.be/mYxO12XTCxw>
  2. <https://youtu.be/NBtp-ssZxtI>
  3. <https://youtu.be/xGo9jQlKbjM>
2. She should revise the lesson given in the book and then do the assignment.
3. Completed assignment is to be downloaded and filed/ pasted in the subject file/copy and kept ready for submission. The date and procedure of the submission will be notified later.

**ANSWER THE FOLLOWING QUESTIONS:**

1. What is meant by semi-conservative nature of DNA replication? Explain the mechanism of DNA replication through this method.  
*(Refer Nootan Prakashan pp. 229-231).*
2. (A) $\Rightarrow$ DNA (B) $\Rightarrow$  mRNA (C) $\Rightarrow$ Protein
  - a. Look at the above sequence and mention the events (A), (B) and (C).
  - b. What does Central Dogma state in Molecular Biology? How does it differ in some viruses?
  - c. Give the salient features of Genetic Code.
  - d. Why is DNA molecule more stable genetic material than RNA? Explain.

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