

DELHI PUBLIC SCHOOL, JAMMU
Assignment for Half Yearly Examination
(2019-20)

Subject: Biology

Class: XII

Topics included are:

- 1. Reproduction in organisms, Sexual reproduction in flowering plants, Human reproduction and Reproductive health.**
- 2. Principles of Inheritance and Variation, Molecular Basis of Inheritance, Evolution.**

- Q1. Give the importance of vegetative propagation in agriculture.
- Q2. How the process of reproduction is important for the survival of population of species on earth?
- Q3. Distinguish between self and cross pollination.
- Q4. Explain the process of germ layers formation in triploblastic animals.
- Q5. What are the major reasons of growth of human population. Also mention the consequences of population explosion.
- Q6. Briefly mention the conclusion drawn from Mendel's monohybrid cross.
- Q7. Differentiate between:
- i. Monocistronic and polycistronic mRNA
 - ii. Induction and Repression
 - iii. Exonucleases and Endonucleases
 - iv. Prokaryotic and eukaryotic transcription
- Q8. Write the characteristics of DNA.
- Q9. What are the different types of RNA? Mention their role in protein synthesis.
- Q10. What are vestigial organs? Name the different vestigial organ present in human.
- Q11. Briefly explain Hardy-Weinberg equilibrium law.
- Q12. Explain the phenomenon of industrial melanism.
- Q13. What are the different methods which are advised for birth control measures?
- Q14. Define and give examples of epistasis and pleiotrophic interactions?
- Q15. The cell division involved in gamete formation is not of the same type in all organisms. Justify.