

**DELHI PUBLIC SCHOOL, JAMMU**  
**Assignment for Half Yearly Examination (2018-19)**

**Subject: Biology**

**Class: XII**

**Topics included are: Reproduction; Principle of Inheritance and Variation; Molecular Basis of Inheritance; Evolution.**

- Q1. What is puberty? (1)
- Q2. What are connecting links. (1)
- Q3. What are pollination agents? (1)
- Q4. What is the role of snRNPs in RNA modifications? (1)
- Q5. What are chasmogamous flowers? (1)
- Q6. Give the importance of vegetative propagation in agriculture. (2)
- Q7. How the process of reproduction is important for the survival of population of species on earth? (2)
- Q8. Distinguish between self and cross pollination. (2)
- Q9. What are vestigial organs? Name the different vestigial organ present in human. (2)
- Q10. Explain the process of germ layers formation in triploblastic animals. (3)
- Q11. What are the major reasons of growth of human population. Also mention the consequences of population explosion. (3)
- Q12. Write the characteristics of DNA. (3)
- Q13. What are the different types of RNA? Mention their role in protein synthesis. (3)
- Q13. Briefly explain Hardy-Weinberg equilibrium law. (3)
- Q14. Explain the phenomenon of industrial melanism. (3)
- Q15. Draw a diagram of female reproductive system. (3)
- Q16. Briefly mention the conclusion drawn from Mendel's monohybrid and dihybrid crosses. (5)
- Q17. Differentiate between: (5)
- i. Monocistronic and polycistronic mRNA
  - ii. Induction and Repression
  - iii. Exonucleases and Endonucleases
  - iv. Prokaryotic and eukaryotic transcription

v. Inducible and repressible gene regulation

Q18. What are the functions of FSH, LH, estrogen and progesterone in menstrual cycle? (5)

Q19. Explain discontinuous distribution and restricted distribution as a source of evolution. (5)

Q20. Describe the components of male reproductive systems. (5)