

DELHI PUBLIC SCHOOL, JAMMU
Assignment for Half Yearly Examination (2017-18)

Subject: Biology

Class: XII

Topics included are: Reproduction; Principle of Inheritance and Variation; Molecular Basis of Inheritance; Evolution and Biology in human welfare.

- Q1. What is puberty? (1)
- Q2. Expand NACO, MOET, IARI and KVIC. (1)
- Q3. What are communicable diseases? (1)
- Q4. What is the role of snRNPs in RNA modifications? (1)
- Q5. What are flocs? How they are useful in STP's? (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 sketch of biogas plant. (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 the different strategies for plant crop improvement. (5)

Q20. Describe the components of male reproductive systems.

(5)