

Delhi Public School, Jammu
Assignment for Pre Board-I
(2017-18)

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.**
- 3. Human Health and Diseases, Strategies for Enhancement in Food Production, Microbes in Human welfare.**
- 4. Biotechnology: Principles and Processes, Biotechnology and its applications.**

- Q1. Why is vegetative reproduction considered as a type of asexual reproduction? (2)
- Q2. Describe the structure of microsporoangium. (2)
- Q3. What is vegetative propagation? Give two suitable examples. (2)
- Q4. The cell division involved in gamete formation is not of the same type in all organisms. Justify. (2)
- Q5. What are the suggestive reasons for population explosion? (3)
- Q6. What are the different methods which are advised for birth control measures? (3)
- Q7. Discuss the various ethical issues concerned with transgenics. (3)
- Q8. Explain the chromosomal theory of linkage. (3)
- Q9. How microbes are used as biocontrol agents? (3)
- Q10. Explain any two theory of evolution. (3)
- Q11. Explain the structure of tRNA. (3)
- Q12. What is genetic engineering? What are the different types of restriction enzymes used in genetic engineering? (3)
- Q13. Define chemical method of gene transformation. (5)
- Q14. Write the application of biotechnology in human welfare. (5)
- Q15. Define and give examples of epistasis and pleiotrophic interactions? (5)