

DELHI PUBLIC SCHOOL, JAMMU
Assignment for Periodic Test I (2018-19)

Subject: Biology

Class: XII

Topics included are: Reproduction in organisms, Sexual reproduction in flowering plants, Human reproduction, Reproductive health and Genetics.

- Q1. Name the hormones involved in regulation of spermatogenesis and oogenesis. (1)
- Q2. What are chasmogamous and cleistogamous flowers. (1)
- Q3. Mention two important characteristics in the sexual reproduction of frogs. (1)
- Q4. Why is reproduction essential for organisms? (1)
- Q5. What is the advantage of the technique amniocentesis? (1)
- Q6. Can a child have blood group O if his parents have blood group A and B? Explain. (2)
- Q7. Off springs formed due to sexual reproduction have better chance of survival. Why? Is this statement always true. (2)
- Q8. What are the two strategies that have evolved in a flower to avoid self pollination? (2)
- Q9. What is infertility? Mention any three causes of infertility in men and women. (2)
- Q10. Why is a coconut plant referred to as monoecious? (2)
- Q11. Give the importance of vegetative propagation in agriculture. (3)
- Q12. What are the different surgical methods of birth control? (3)
- Q13. What is menstruation? What are the functions of FSH, LH, estrogen and progesterone in menstrual cycle? (3)
- Q14. Describe post fertilization events in a flower. (3)
- Q15. A cross was carried out between two pea plants showing the contrasting traits of height of the plant. The result of the cross showed 50% of the parental characters. (3)
- a. Work out the cross with the help of a punnett square.
- b. Name the type of the cross carried out.
- Q16. Why a pistil of a flower does not accept pollen from any plant other than from its own kind? (3)
- Q17. Explain the chromosomal theory of inheritance. (3)
- Q18. What are the factors affecting linkage and crossing over? (3)
- Q19. The cell division involved in gamete formation is not of the same type in all organisms. Justify. (3)

- Q20. What are the suggestive reasons for population explosion? (3)
- Q21. Draw and describe the components of female reproductive systems. (5)
- Q22. What are sexually transmitted diseases in human? Explain any two of them. (5)
- Q23. Describe the mechanism of inheritance of the ABO blood group highlighting the principle of genetics involved in it. (5)
- Q24. Explain the process of germ layers formation in triploblastic animals. (5)
- Q25. Explain different contraceptive methods for birth controls. (5)