

**Dr. M.K.K. ARYA MODEL SCHOOL**

**HOLIDAYS HOMEWORK ASSIGNMENT (2017-18)**

**SUBJECT : BIOLOGY**

**CLASS : XII**

**CHAPTER : 1-4**

1. Offspring derived by asexual reproduction are called clones. Justify giving two reasons.
2. Name the organism that is referred to as the terror of Bengal and why?
3. Why do internodal segments of sugarcane fail to propagate vegetatively, even when they are in contact with damp soil?
4. All date palm plants bear flowers but fruits are seen in some. Explain.
5. Both tapeworm and earthworm are hermaphrodites, how do they differ from each other with reference to fertilization?
6. The turkey usually produces females for several generations. How is this possible?
7. Distinguish between:
  - a) oestrous and menstrual cycle.
  - b) Continuous and seasonal breeders.
  - c) Oviparous and viviparous animals.
  - d) Parthenocarp and parthenogenesis.
  - e) Zona pellucida and corona radiata.
  - f) Tubectomy and vasectomy.
  - g) ZIFT and IUT.
8. What is vegetative propagation? Explain its importance.
9. State the function of pericarp.
10. How oxalis plants produce assured seed- sets even in the absence of pollinators?
11. Why do species with abiotic mode of pollination produce larger number of pollen grains, when compared to those with biotic pollination?
12. Not all hydrophytes are pollinated by water. Justify by giving examples.
13. Explain the mutually rewarding relationship between yucca plant and species of moth.
14. Draw a diagram of:
  - a) vertical section of maize grain.
  - b) Anatropous ovule
  - c) Development of female gametophyte.
  - d) Male sperm
  - e) Stages of embryo development from zygote upto implantation in humans.

f) Female reproductive system

15. What is apomixis? State its significance.
16. Describe the features of wind pollinated flowers.
17. Explain three outbreeding devices.
18. Why is it considered that presence and absence of hymen is not an indication of virginity?
19. Explain the role of any two accessory glands in human male reproductive system.
20. Explain the role of pituitary hormones during menstrual cycle in human female.
21. Why middle piece of sperm considered as powerhouse of cell?
22. How does CuT act as an effective contraceptive?
23. What is amniocentesis? Justify the statutory ban on it.
24. Why are MTP carried out?
25. Males in whom testes fail descend to the scrotum are generally infertile. Why ?
26. What are ARTs? Explain some techniques of ART.