BRAIN INTERNATIONAL SCHOOL

Biology Assignment **Class XII** **Apr '18**

CH: Reproduction in Organisms

1. Differentiate between (a) oestrous and menstrual cycle.
2. Rose plants produce large attractive bisexual flowers, but they seldom produce flowers. On the other hand Lady's finger produces plenty of fruits. Analyse the reasons.
3. Suggest a possible explanation why the seeds in pea pod are arranged in a row, whereas those in tomato are scattered in the juicy pulp.
4. Name the various types of underground stems with examples.
5. Amoeba is called immortal. Why?

CH: Human Reproduction

6. List the three phases of gametogenesis.
7. Name the phase of spermatogenesis during which meiosis occurs.
8. Name the longest phase of menstrual cycle.
9. What are the events that take place in the ovary and uterus during follicular phase of menstrual cycle?
10. What are the changes in the oogonia during transition of a primary follicle to graafian follicle.
11. What is the significance of epididymis in males?
12. How does zona pellucida of ovum help in preventing polyspermy?
13. Describe the events that take place from implantation till parturition.
14. What is foetal ejection reflex? What induces it?

CH:Reproductive Health

15. Give any five reasons for sex education in school going children.
16. Expand IUD. Why is hormone releasing IUD considered as a good contraceptive?
17. What is amniocentesis? What is its advantage?
18. Explain any three methods of assisted reproductive technology.
19. What is lactational amenorrhoea? How can it be used as a contraceptive?
20. Differentiate between tubectomy and vasectomy.

CH: Reproduction in Plants

21. Name the component cells of the egg apparatus in an embryo sac.
22. In case of polyembryony, if one embryo develops from the synergid and another from the nucellus .Which one is haploid and which is diploid?
23. Name the type of pollination in self-incompatible plants.
24. Describe the development of an embryo sac.
25. Draw a well labelled diagram of T.S of a mature anther of an angiospermic flower.

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BIOLOGY Assignment Class XII MAY **2018**

CH -Sexual reproduction in flowering plants

1. Why do corn cabs have long tassels?
2. How is fertilisation by self incompatible pollen prevented?
3. All hydrophytes are not pollinated by water. Why?
4. Write the cellular contents carried by the pollen tube. How does the pollen tube gain its entry into the embryo sac?
5. If the chromosome number of a plant species is 16, what would be the chromosome number and the ploidy level of the (a) microspore mother cell (b) endosperm.
6. Differentiate parthenocarpy and parthenogenesis.
7. Explain three outbreeding devices.
8. Describe the endosperm development in coconut.
9. Define linkage.
10. How many pairs of chromosome does a male drosophila have? Which one of them bears the gene for eye colour?
11. Why do normal RBC become elongated and sickle shaped structure in a person suffering from sickle cell anaemia?
12. Define aneuploidy.
13. A pea plant homozygous for axial flowers and constricted pods ,is crossed with pea plant homozygous for terminal flowers having inflated pods. Work out the cross upto F_2 generation . Show the genotypes of the parents and the phenotype and genotype of the progeny.
14. Explain female heterogamety with the help of an example.
15. Why are human females rarely haemophilic?