

KIRAN TUTORIALS

Seat No.

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Std 10 (English)

Science And Technology - II

Date 29-09-20

Time 1HRS

Chapter 3.00

Marks 20

Q.1 Multiple Choice Questions **2**

- 1 In pollen is transferred from one flower to another flower of the same plant.
 a. cross pollination b. self-pollination c. fertilization d. germination

Ans In **self-pollination** pollen is transferred from one flower to another flower of the same plant.

- 2 Vegetative propagation is performed with the help of in sweet potato.
 a. root b. stem c. leaf d. flower.

Ans Vegetative propagation is performed with the help of **Root** in sweet potato.

Q.2 Find the odd one out **2**

- 1 Syphilis, Leprosy, Gonorrhoea, AIDS

Ans **Leprosy** - It is not a sexually transmitted disease while rest are sexually transmitted diseases(STD).

- 2 Vagina, Uterus, Testes, Ovaries

Ans **Testes** - It is an organ of male reproductive system while the rest are the organs of female reproductive system.

Q.3 State True or False **2**

- 1 In human beings, female attain puberty little later than males.

Ans In human beings, female attain puberty little later than males. - **False**,
 In human beings, the males attain puberty little later than females.

- 2 In sexual reproduction, there is no fusion of two different germs cells.

Ans In sexual reproduction, there is no fusion of two different germ cells - **False**, In asexual reproduction, there is no fusion of two different cells.

Q.4 Name the following **1**

- 1 Which are the important life processes in living organisms ?

Ans The important life processes in living organisms are movement, respiration, growth, excretion, reproduction, nutrition.

Q.5 Give scientific reasons **4**

- 1 Multicellular organisms show complex ways of reproduction.

Ans . Multicellular organisms are complex and have special organs and organ systems placed at a definite place in the body which are formed by specific tissues.
 i. In such organized organisms, method of, cell by cell division to reproduce is impractical.
 ii. Therefore, they show complex ways of reproduction.

- 2 Use of condoms is a good contraceptive method.

Ans i. Use of condoms protects individuals from sexually transmitted diseases like AIDS.

- ii. It also helps in population control, and it is extremely harmless.
- iii. Hence, use of condoms is a good contraceptive method.

Q.6 Write Short Notes

4

1 Write short note on Budding in Hydra.

- Ans**
- i. In Hydra, under favourable conditions, at specific part of its body, an outgrowth is formed by repeated divisions of regenerative cells of body wall. This outgrowth is called as bud.
 - ii. Bud grows up progressively and finally forms a small hydra.
 - iii. Dermal layers and digestive cavity of the budding hydra are in continuity with those of parent hydra.
 - iv. Parent hydra supplies nutrition to the budding hydra.
 - v. Budding hydra separates from parent hydra and starts to lead an independent life when it grows up and becomes able to lead an independent life.

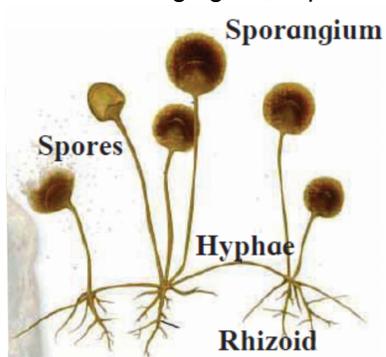
2 Write short note on In Vitro Fertilization (IVF).

- Ans**
- i. In Vitro Fertilization (IVF) is an advance medical technique.
 - ii. In IVF, the fertilization is brought about in the test-tube and the embryo formed is implanted in uterus of women at appropriate time.
 - iii. The IVF technique is used for having the child in case of those childless couples who have problems like less sperm count, obstacles in oviduct, etc.,

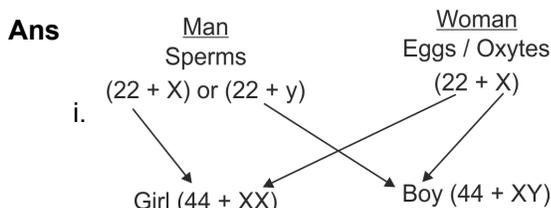
Q.7 Answer the following in detail (Any One)

5

- 1
- i. "Gender of child is determined by the male partner of couple." Draw a diagram explaining the above statement.
 - ii. Prepare a slogan for campaign against female foeticide.
 - iii. In the following figure, explain how new fungal colonies of mucor are formed :

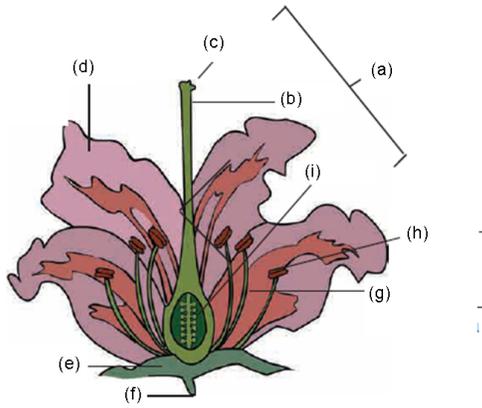


- iv. Identify and state the type of reproduction represented in the above figure.



- ii. "Save Girl Child"
- iii. The spores from the sporangia of the fungi released which then germinates in moist and warm places giving rise to new fungal colonies.
- iv. Spore formation : It is a type of a sexual reproduction in mult-cellular organism.

2 Label diagram



Ans

