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Question 1. How is the process Of pollination different from fertilization ?

Answer: Pollination is the transfer of pollen grains from the anther to the stigma Of a flower whereas fertilization is the fusion Of male gamete with female gamete (egg).

Question 2. What is the role of the seminal vesicles and the prostate gland ?

Answer: Seminal vesicles and the prostate gland add their secretions so that the sperms are in a fluid (semen) which makes their transport easier and this fluid also provides nutrition.

Question 3. What are the changes seen in girls at the time Of puberty ?

Answer: Changes seen in girls at the time of puberty are :

1. Breast size begins to increase.
2. Girls begin to menstruate.
3. Growth Of pubic hair.
4. Skin becomes oily.

Question 4. How does the embryo get nourishment inside the Mother's body?

Answer: embryo gets nutrition from mother's blood with the help Of a special tissue called placenta. Through placenta, glucose and oxygen pass from mother to the embryo. Moreover, waste substance of embryo are removed through placenta into the mother's blood.

Question 5. If a woman is using a copper-T will it help in protecting her from sexually transmitted diseases?

Answer: No, copper-T will not protect her from Only Barrier methods protect from sexually transmitted diseases.

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Question 1. Asexual reproduction takes place through budding in :

- (a) Amoeba
- (b) Yeast
- (c) Plasmodium
- (d) Leishmania.

Answer: (b) Yeast.

Question 2. Which of the following is not a part Of the female reproductive system in human beings ?

- (a) Ovary
- (b) Uterus
- (c) Vas deferens
- (d) Fallopian tube

Answer: (c) Vas deferens.

Question 3. The anther contains :

- (a) Sepals
- (b) Ovules
- (c) Carpel
- (d) Pollen grains.

Answer: (d) Pollen grains

Question 4. What are the advantages of sexual reproduction over asexual reproduction?

Answer: Sexual reproduction leads to new combination Of genes as it involves two parents and meiosis. This produces variation in offspring. Variations are the basis for evolution.

Question 5. What are the functions performed by the testes in human beings?

Answer: Functions Of testes are .

(i) Testes produce sperms.

(ii) Testosterone (male sex hormone) is also produced by testes.

Question 6. Why does menstruation occur?

Answer: If the egg is not fertilized and uterus does not get zygote, the developed lining slowly breaks and menstruation occur.

Question 8. What are the different methods of contraception?

Answer: There are three main methods of contraception :

1. Barrier methods,
2. Chemical methods, and
3. Surgical methods.

1. Barrier methods: In barrier methods, physical devices such as condom, diaphragm and cervical caps are used. They prevent the entry Of sperms in the female genital tract during copulation.

2. Chemical methods: The chemical methods make use of specific drugs by females. There are two types of such drugs, Oral pills and vaginal pills. Oral pills are mainly hormonal preparation, and are called oral contraceptives (OCS).

3. Surgical methods: In the surgical methods, a small portion of vas deferens in male, and the fallopian tube in female, in surgically removed or ligated (tied). It is called vasectomy in males and tubectomy in females.

Apart from these three methods the intrauterine contraceptive devices are used to prevent pregnancies. The use of Intra Uterine Contraceptive Devices (IUCDs) is also very effective and popular. A copper-T is placed safely inside the uterus by a practising doctor or a skilled nurse. IUCDs prevent implantation in the uterus.

Question 9. How are the modes for reproduction different in unicellular and multicellular organisms ?

Answer: Unicellular organisms reproduce asexually whereas multicellular organisms reproduce mainly by n 1 reproduction.

Question 10. How does reproduction help in providing stability to populations Of species?

Answer: The rate Of birth and death in a given population determine its stability. The rate of birth should be approximately equal to the rate of death. So, by checking birth rate, which is increasing at an alarming rate, stability to population of species can be provided

Question 11. What could be the reasons for adopting contraceptive methods?

Answer: Frequent pregnancies have an adverse effect on the health of a woman. Frequent and unwanted pregnancies can be avoided by adopting contraceptive methods. Also, these methods check population growth by controlling child birth rate.

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