

Unit 3 Cells and human reproduction

A Multiple-choice questions

1. D
2. A
3. A
4. D
5. A
6. B
7. A
8. C
9. A
10. A

B True or false questions

1. F
2. T
3. F
4. F
5. F

C Fill-in-the-blanks

1. cell division
2. movement
3. urethra
4. placenta
5. twins

D Short questions

1. The correct order is: D, C, A, B
Iodine solution
2. Testes and ovaries: produce sex cells for fertilization
Sperm ducts and oviducts: transport sex cells
3. Seahorse: the male fish carries the eggs in its pouch until the eggs hatch.
Kangaroo: the female carries the young in its pouch.
Bird: the parents hatch the eggs with their body warmth and find food to feed the young.
(any TWO or other reasonable answers.)
4. X should be placed inside B (uterus).
It changes the environment of the uterus to prevent the implantation of the embryo in the uterus.

5. Having sex may result in pregnancy, thus the problems would be:

- Do not have income to raise a baby.
- Cannot attend schools.
- Not mentally mature enough to take care of a baby.

(Or other reasonable answers.)

E Long questions

1. a) Put on condom

Male sterilization/tie and cut the sperm ducts

b) No effect

c) Condom: sperms are present in semen

Male sterilization: no sperms are present in semen

d) A, B, D, F

e) Easier to clean the penis

2. a) The husband produces too little amount of sperms.

The oviducts of the wife / sperm ducts of the husband are blocked.

b) Testes

c) In the oviduct

d) There is certainly an egg for the sperms to fertilize. In the natural process, there may not be any eggs in the oviduct during the time of sexual intercourse.

The sperms do not need to travel a long distance to meet an egg because they are put into a dish with eggs inside.

(any ONE)

e) Implantation of the embryo onto the uterus

3. a) Male

b) Cell division

c) No, it is not formed from sexual reproduction.

This is because there was no fertilization between an egg's nucleus and a sperm's nucleus.

d) A

This is because the nucleus of cell X came from the skin cell of cow A.