

QB365 Question Paper Software
12th Standard - Biology
Reproductive Health Assertion and reason

Exam Time: 00:20 Hrs

Date: 2025-09-27

Total Marks: 10

Questions:

1. **Assertion :** To achieve zero population growth rate, the replacement level should be slightly higher than 2.
Reason : Replacement level means the number of children that can replace parent equally.
Codes :
(a) Both assertion and reason are true and reason is the correct explanation of assertion.
(b) Both assertion and reason are true but reason is not the correct explanation of assertion.
(c) Assertion is true but reason is false.
(d) Both assertion and reason are false.
2. **Assertion :** A medical termination of pregnancy is legally allowed upto the 28th week of pregnancy.
Reason : MTP is done if family physician or gynaecologist consider the need for abortion.
Codes :
(a) Both assertion and reason are true and reason is the correct explanation of assertion.
(b) Both assertion and reason are true but reason is not the correct explanation of assertion.
(c) Assertion is true but reason is false.
(d) Both assertion and reason are false.
3. **Assertion:** Generally, a woman does not conceive during the lactation period.
Reason : The hormone 'prolactin' initiates and maintains lactation in a postpartum woman.
Codes :
(a) Both assertion and reason are true and reason is the correct explanation of assertion.
(b) Both assertion and reason are true but reason is not the correct explanation of assertion.
(c) Assertion is true but reason is false.
(d) Both assertion and reason are false.
4. Given below are the two pills used for contraception; also known as birth control pills. These are safe and affordable and prove to cause less pain when compared to other methods.
Refer to the given figure and comment upon the appropriateness of the Assertion and the Reason.

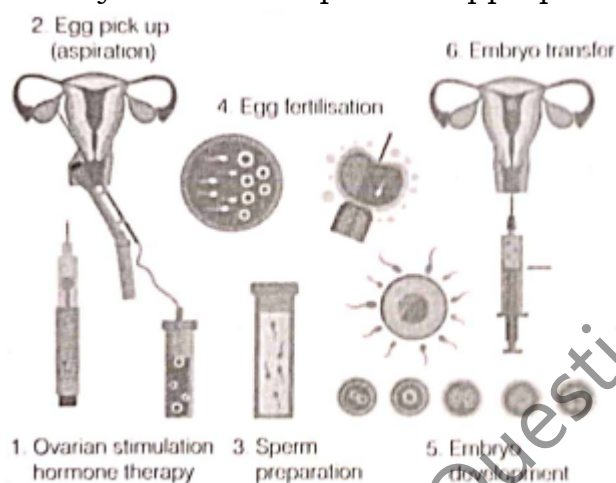


Assertion (A) : Pill Saheli is highly effective as once a week pill.

Reason (R) Pills inhibit ovulation and implantation. They also retard the entry of sperms.

- (a) If both A and R are true and R is the correct explanation of the A
- (b) If both A and R are true, but R is not the correct explanation of the A
- (c) If A is true, but R is false
- (d) If A is false, but R is true

5. Refer to the given diagram of invitro fertilisation technique used to help couples with fertility. Comment upon the appropriateness of the Assertion and the Reason.



Assertion (A) : IVF is one of the widely known types of ART.

Reason (R) : It guarantees the chance of conceiving and thereby pregnancy.

- (a) If both A and R are true and R is the correct explanation of the A
- (b) If both A and R are true, but R is not the correct explanation of the A
- (c) If A is true, but R is false
- (d) If A is false, but R is true

6. **Assertion:** Contraceptives are methods to prevent unwanted pregnancies.

Reason: Unwanted pregnancies can only be prevented by using oral contraceptives.

Codes:

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- (c) If Assertion is true but Reason is false.
- (d) If both Assertion and Reason are false.

7. **Assertion (A):** IUDs are ideal contraceptives for the females who want to delay pregnancy.

Reason (R): IUDs can be self inserted and thereby give privacy to the users.

Codes:

- a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- b) Both (A) and (R) are true and (R) is not the correct explanation of (A)

- c) (A) is true but (R) is false
- d) Both (A) and (R) are false

8. **Assertion (A):** MTP has a significant role in decreasing the population though it is not meant for that purpose.

Reason (R): Nearly 45 to 50 million MTPs are performed in a year all over the world which accounts to 1/5 of the total number of conceived pregnancies in a year.

Codes:

- a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- b) Both (A) and (R) are true and (R) is not the correct explanation of (A)
- c) (A) is true but (R) is false
- d) Both (A) and (R) are false

9. **Assertion (A):** Second trimester abortions are much more complicated.

Reason (R): After 12 weeks the foetus becomes intimately associated with the maternal tissues.

Codes:

- a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- b) Both (A) and (R) are true and (R) is not the correct explanation of (A)
- c) (A) is true but (R) is false
- d) Both (A) and (R) are false

10. **Assertion (A):** Generally, a woman does not conceive during lactation period.

Reason (R): The hormone prolactin initiates and maintains lactation in a woman.

Codes:

- a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- b) Both (A) and (R) are true and (R) is not the correct explanation of (A)
- c) (A) is true but (R) is false
- d) Both (A) and (R) are false

Answers Key:

1. (a) Both assertion and reason are true and reason is the correct explanation of assertion.
2. (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
3. (b) : Milk secretion is maintained as long as breast feeding, and hence hormone production continues. A woman does not conceive during the lactation period because lactation stimulates prolactin secretion and there is evidence that prolactin inhibits GnRH secretion, and antagonises the action of gonadotrophins on the ovaries. Ovulation is inhibited, and the ovaries are inactive, so estrogen and progesterone output falls to low levels. Thus during lactation a woman does not conceive. Only 5-10% chances are there during lactation period. This can also be interpreted as mechanism devised by nature so that mother can look after the new born child by providing it with milk.
4. (a) If both A and R are true and R is the correct explanation of the A
5. (c) If A is true, but R is false
It can be corrected as IVF is definitely known to increase chances of fertility in couples which fail to be parents however, the technique does not guarantee the pregnancy as the technique does not work for everybody.
6. (c) If Assertion is true but Reason is false.

Explanation:

Contraceptives can be broadly grouped into natural, barrier, IUDs, oral contraceptives, injectables, implants and surgical methods.

7. c) (A) is true but (R) is false
8. a) Both (A) and (R) are true and (R) is the correct explanation of (A)
9. a) Both (A) and (R) are true and (R) is the correct explanation of (A)
10. b) Both (A) and (R) are true and (R) is not the correct explanation of (A)

QB365 Question Paper Software