

ASSERTION-REASON TYPE

Directions: In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as:

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- (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.

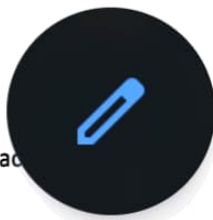
- Assertion(A) : Growth hormone stimulates the growth of different body parts.
Reason (R) : Gonadotropins stimulate the production of sex hormones.
- Assertion(A): Testes lie in penis outside the body.
Reason (R) : Sperms require temperature lower than the body temperature for development
- Assertion(A) : Colonies of yeast multiply in sugar solution.
Reason (R) : Sugar is made of sucrose which provides energy for sustaining all life activities.
- Assertion(A): Pollen grains from the carpel stick to the stigma of stamen.
Reason (R) : The unfertilised egg cells grow inside the ovules and become seeds.
- Assertion(A) : The offspring produced by sexual reproduction is likely to adjust better in environmental fluctuation.
Reason (R) : During the fusion of gametes there is mixing of genetic material from two parents.
- Assertion(A): Testes lie in penis outside the body.
Reason (R) : Sperms require temperature lower than the body temperature for development.
- Assertion(A) : Asexual reproduction is a primitive type of reproduction.
Reason (R) : Asexual reproduction involves only mitotic cell division.
- Assertion(A) : Spores are unicellular bodies.
Reason (R) : The parent body simply breaks up into smaller pieces on maturation.

MULTIPLE CHOICE QUESTIONS:

- Which among the following is not the function of testis at puberty?
 - Formation of sperms
 - Releasing testosterone
 - ovulation
 - release of seminal fluid
- Length of the pollen tube depends upon the distance between ___.
 - pollen grain and upper surface of stigma
 - pollen grain on upper surface of stigma and ovule
 - pollen grain in anther and upper surface of stigma
 - upper surface of stigma and lower part of style

- Fertilisation occurs in human female when the sperms and ovum reach simultaneously at

(a) fallopian tube



11. Fertilisation occurs in human female when the sperms and ovum reach simultaneously at

- (a) fallopian tube
- (b) uterus
- (c) vagina
- (d) cervix

12. In the list of organisms given below, those that reproduce by the asexual method are

- (i) banana
- (ii) dog
- (iii) yeast
- (iv) Amoeba

- (a) (ii) and (iv)
- (b) (i), (iii) and (iv)
- (c) (i) and (iv)
- (d) (ii), (iii) and (iv)

13. Which of the following is the correct sequence of events of sexual reproduction in a flower?

- (a) pollination, fertilisation, seedling, embryo
- (b) seedling, embryo, fertilisation, pollination
- (c) pollination, fertilisation, embryo, seedling
- (d) embryo, seedling, pollination, fertilisation

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14. Which of the following is not an artificial method of vegetative propagation?

- a) Cutting
- b) Layering
- c) Budding
- d) Grafting

15. There is a greater possibility for the evolution of a new species in organisms which reproduce by

- a) binary fission
- b) budding

Biology Week sheet

1) $a \rangle d \rangle$
2) $b \rangle a \rangle$
3) $a \rangle b \rangle$
4) $a \rangle b \rangle$
5) $a \rangle d \rangle$
6) $a \rangle$
7) $b \rangle$
8) $c \rangle$

10) $d \rangle$
11) $b \rangle$ inters
12) $a \rangle$
13) $a \rangle$
14) $c \rangle$
15) $c \rangle$