

RAVI MATHS TUITION CENTER , CHENNAI- 82. WHATSAPP - 8056206308

How Do Organisms Reproduce T2

10th Standard

Science

17 x 1 = 17

- 1) In a flower, the parts that produce male and female gametes (germ cells) are
(a) stamen and anther (b) filament (c) anther and ovary (d) stamen and style
- 2) Offspring formed by asexual method of reproduction have greater similarity among themselves because
(i) asexual reproduction involves only one parent
(ii) asexual reproduction does not involve gametes
(iii) asexual reproduction occurs before sexual reproduction
(iv) asexual reproduction occurs after sexual reproduction
(a) (i) and (ii) (b) (i) and (iii) (c) (ii) and (iv) (d) (iii) and (iv)
- 3) Characters that are transmitted from parents to offspring during reproduction show
(a) only similarities with parents (b) only variations with parents
(c) both similarities and variations with parents (d) neither similarities nor variations
- 4) In Spirogyra, asexual reproduction takes place by
(a) breaking up of filaments into smaller bits (b) division of a cell into two cells
(c) division of a cell into many cells (d) formation of Young cells from older cells
- 5) In Rhizopus, tubular thread-like structures bearing sporangia at their tips are called
(a) filaments (b) hyphae (c) rhizoids (d) roots
- 6) Factors responsible for the rapid spread of bread mould on slices of bread are
(i) large number of spores
(ii) availability of moisture and nutrients in bread
(iii) presence of tubular branched hyphae
(iv) formation of round shaped sporangia
(a) (i) and (iii) (b) (ii) and (iv) (c) (i) and (ii) (d) (iii) and (iv)
- 7) Which of the following statements are true for flowers?
(i) Flowers are always bisexual
(ii) They are the sexual reproductive organs
(iii) They are produced in all groups of plants
(iv) After fertilisation they give rise to fruits
(a) (i) and (iv) (b) (ii) and (iii) (c) (i) and (iii) (d) (ii) and (iv)
- 8) Which among the following statements are true for sexual reproduction in flowering plants?
(i) It requires two types of gametes
(ii) Fertilisation is a compulsory event
(iii) It always results in formation of zygote
(iv) Offspring formed are clones
(a) (i) and (iv) (b) (i), (ii) and (iv) (c) (i), (ii) and (iii) (d) (i), (ii) and (iv)
- 9) Reproduction is essential for living organisms in order to
(a) keep the individual organism alive (b) fulfill their energy requirement (c) maintain growth
(d) continue the species generation after generation
- 10) In human females, an event that reflects onset of reproductive phase is
(a) growth of body (b) changes in hair pattern (c) change in voice (d) menstruation
- 11) In human males, the testes lie in the scrotum because it helps in the
(a) process of mating (b) formation of sperm (c) easy transfer of gametes (d) all the above

- 12) Which among the following diseases is not sexually transmitted?
 (a) Syphilis (b) Hepatitis (c) HIV-AIDS (d) Gonorrhoea
- 13) ____ is the portion on which grafting is done and it provides the roots
 (a) Stock (b) Scion (c) Both (a) and (b) (d) None of these
- 14) Which one of the options is incorrect? Vegetative propagation is practised because
 (a) Plants which produce non viable seeds can be grown. (b) It is a easier method than sowing seeds.
 (c) Such plants produce seeds and fruits much earlier than other methods
 (d) For obtaining better species of plants.
- 15) What is the puberty age in human males?
 (a) 8-10 (b) 10-12 (c) 12-14 (d) 14-16
- 16) In which of the following plant bud in notches of leaves help in its propagation?
 (a) Radish (b) Bryophyllum (c) Bougainvillea (d) Jasmine
- 17) What are the functions performed by the testis in human males
 (a) Production of gametes-eggs and secretion of sex hormones-estrogen
 (b) Production of gametes-sperms and secretion of sex hormones-testosterone
 (c) Production of gametes-sperms and secretion of sex hormones-estrogen (d) None of the above

3 x 1 = 3

18) **Assertion:** Fusion of gametes gives rise to a single cell called zygote.

Reason: Zygote is a fertilised ovum.

Codes

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

19) **Assertion:** Ovaries are the primary reproductive organs in a woman.

Reason: The function of ovaries is to make mature female sex cells and female sex hormones.

Codes

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

20) **Assertion:** Vaginal pills contain spermicides.

Reason: Spermicides kill the sperms.

Codes

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

6 x 4 = 24

21) What are the changes seen in girls at the time of puberty?

22) Draw a labelled diagram of the longitudinal section of a flower.

23) List six specific characteristics of sexual reproduction.

24) (a) Write the functions of the following parts in human female reproductive system:

- (i) Ovary (ii) Oviduct (iii) Uterus
 (b) Describe the structure and function of placenta.

25) Illustrate the following with the help of a suitable diagrams:

- (i) Regeneration in Planaria
 (ii) Budding in Hydra

26) Illustrate the following with the help of suitable diagram

- (i) Binary fission in Amoeba (ii) Leaf of Bryophyllum with buds

