

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

How Do Organisms Reproduce T1

10th Standard

Science

20 x 1 = 20

- 1) Asexual reproduction takes place through budding in
(a) amoeba (b) yeast (c) plasmodium (d) leishmania
- 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
- 3) The anther contains
(a) sepals (b) ovules (c) carpel (d) pollen grains
- 4) Which of the following is 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
- 5) Characters transmitted from parents to offspring are present in
(a) cytoplasm (b) ribosome (c) golgi bodies (d) genes
- 6) A feature of reproduction that is common Amoeba, Spirogyra and Yeast is that
(a) they reproduce asexually (b) they are all unicellular (c) they reproduce only sexually
(d) they are all multicellular
- 7) The ability of a cell to divide into several cells during reproduction in Plasmodium is called
(a) budding (b) reduction division (c) binary fission (d) multiple fission
- 8) The number of chromosomes in parents and offspring of a particular species remains constant due to
(a) doubling of chromosomes after zygote formation
(b) halving of chromosomes during gamete formation
(c) doubling of chromosomes after gamete formation
(d) halving of chromosomes after gamete formation
- 9) Vegetative propagation refers to formation of new plants from
(a) stem, roots and flowers (b) stem, roots, and flower (c) stem, flowers and fruits
(d) stem, leaves and flowers
- 10) Length of pollen tube depends on the distance between
(a) pollen grain and upper surface of stigma (b) pollen grain on upper surface of stigma and ovule
(c) pollen grain in anther and upper surface of stigma
(d) upper surface of stigma and lower part of style
- 11) Which among the following statements are true for unisexual flowers?
(i) They possess both stamen and pistil
(ii) They possess either stamen or pistil
(iii) They exhibit cross pollination
(iv) Unisexual flowers possessing only stamens cannot produce fruits
(a) (i) and (iv) (b) (ii), (iii) and (iv) (c) (iii) and (iv) (d) (i), (iii) and (iv)
- 12) Offspring formed as a result of sexual reproduction exhibit more variations because
(a) sexual reproduction is a lengthy process
(b) genetic material comes from two parents of the same species
(c) genetic material comes from two parents of different species
(d) genetic material comes from many parents

13) During adolescence, several changes occur in the human body. Mark one change associated with sexual maturation in boys

- (a) loss of milk teeth (b) increase in height (c) cracking of voice (d) weight gain

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15) Which among the following is not the function of testes at puberty?

- (i) formation of germ cells
(ii) secretion of testosterone
(iii) development of placenta
(iv) secretion of estrogen

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

16) The simple animals like Planaria can be cut into a number of pieces and each piece grows into a complex organism. What is the process known as?

- (a) Budding (b) Fragmentation (c) Spore formation (d) Regeneration

17) Where does fertilisation occur in human females

- (a) Uterus (b) Cervix (c) Oviduct (d) None of these

18) What is the surgical method of contraception in female and male respectively

- (a) Tubectomy and Vasectomy (b) Vasectomy and Copper-T (c) Tubectomy and Copper-T
(d) None of these

19) Which of the following is not a sexually transmitted disease

- (a) Warts (b) Kala azar (c) Syphilis (d) Gonorrhoea

20) Fruit is formed from

- (a) Stamen (b) Stigma (c) Ovary (d) Ovule

5 x 1 = 5

21) **Assertion:** The DNA in the cell nucleus is the information source for making proteins.

Reason: The change in information makes different protein and leads to altered body design.

Codes

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

22) **Assertion:** Variation is useful for the survival of species over time.

Reason: Variations in individuals would bring some chance for them to survive in any disaster

Codes

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

23) **Assertion:** The female germ cell is called an egg and it contains the stored energy.

Reason: The egg contains energy in the form of stored food.

Codes

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

24) **Assertion:** When a girl is born, the ovaries already contain thousands of immature eggs

Reason: One egg is produced every month by one of the ovaries.

Codes

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

25) **Assertion:** Cell division is a type of reproduction in unicellular organisms.

Reason: It leads to formation of two daughter cells which means it produces more individual.

Codes

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

6 x 2 = 12

26) If a woman is using copper-T, will it help in protecting her from sexually transmitted diseases?

27) What are the different methods of contraception?

28) How does growing embryo get nutrition from the mother's blood?

29) What is DNA copying? State its importance.

30) "The chromosomal number of the sexually reproducing parents and their offspring is the same". Justify this statement.

31) Suggest three contraceptive methods to control the size of human population which is essential the health and prosperity of a country. State the basic principle involved in each.

6 x 3 = 18

32) Why does menstruation occur?

33) How does reproduction help in providing stability to the population of species?

34) Why is DNA copying an essential part of the process of reproduction?

35) List any four methods of contraceptions used by humans. How does their use have a direct effect on the health and prosperity of a family?

36) Define reproduction: How does it help in providing stability to the population of species?