How do Organisms Reproduce? Multiple Choice Questions

1. 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)
- Ans: (b) (i), (iii) and (iv)

2. In a flower, the parts that produce male and female gametes (germ cells) are

- (a) stamen and anther
- (b) filament and stigma
- (c) anther and ovary

- (d) stamen and style
- Ans: (c) anther and ovary

3. 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, fertilization

Ans: (c) pollination, fertilisation, embryo, seedling

Pollination leads to fertilization after which embryo is formed. Seedling comes out from embryo.

4. 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)
Ans: (a) (i) and (ii)
Explanation:
Asexual reproduction involves single parent and there is no fusion of gametes hence offspring looks similar to their parent.
Characters transmitted from parents to offspring are present in
(a) cytoplasm
(b) ribosome
(c) Golgi bodies
(d) genes
Ans: (a) only variations with parents
(e) both similarities and variations with parents
(d) neither similarities nor variations
Ans: (c) both similarities and variations with parents
(d) neither similarities and variations with parents
(e) both similarities convariations
Ans: (c) both similarities and variations with parents
(d) neither similarities and variations with parents
(e) both similarities and variations with parents
(f) hey are all unicellular
(f) they are all unicellular
(g) they are all unicellular
(h) they are all unicellu

Amoeba reproduce by binary fission, Spirogyra reproduce by fragmentation, yeast reproduce by budding.

8. 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.

Ans: (a) breaking up of filaments into smaller bits

Explanation:

Spirogyra reproduces by fragmentation. Spirogyra simply breaks up into smaller pieces upon maturation. These pieces or fragments grow into new individuals

9. 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

Ans: (d) multiple fission

10. The correct sequence of reproductive stages seen in flowering plants is

- (a) gametes, zygote, embryo, seedling
- (b) zygote, gametes, embryo, seedling
- (c) seedling, embryo, zygote, gametes
- (d) gametes, embryo, zygote, seedling

Ans: (a) gametes, zygote, embryo, seedling

Explanation:

Gametes fuse to form a zygote during fertilization. Zygote becomes embryo which develops into a seedling.

11. The number of chromosomes in parents and offsprings 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 during gamete formation Ans: (b) halving of chromosomes during gamete formation 1. In Rhizopus, tubular thread-like structures bearing sporangia at their tips are called (a) filaments (b) hyphae (c) rhizoids (d) roots Ans: (b) hyphae (c) rhizoids (d) roots Ans: (b) hyphae (e) stem, roots and flowers (f) stem, roots and flowers (f) stem, roots and flowers (g) stem, roots and flowers (e) stem, flowers and flowers (f) stem, roots and flowers (h) stem, roots and flowers (h) stem, roots and leaves (i) stem, roots and flowers 14 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 (iii) (d) (iii) and iv) (e) (i) and (iii) (f) (iii) and ivo (g) (ii) and ivo (g) (ii) and ito 15 Length of pollen tube depends on the distance between (a) pollen grain and the upper surface of stigma and ovule (c) pollen grain in anther and upper surface of stigma (d) upper surface of stigma and lowule (e) pollen grain in anther and upper surface of stigma (d) upper surface of stigma and lowule

रेंद्र देंद्र देंद्

Ans: (d) upper surface of stigma and lower part of style 16. Which of the following statements are true for flowers? (i) Flowers are always bisexual (ii) They are the sexual reproductive organs (iii) 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) Ans: (d) (ii) and (iv) 7. Which among the following statements are true for unisexual flowers? (i) They possess both stamen and pistil (ii) They possess both stamen and pistil (iii) They possess both stamen and pistil (ii) They possess both stamen and 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) 18. Which among the following statements are true for sexual reproduction in flowering plants? (i) It requires two types of gamets (ii) Fertilisation is a compulsory event (iii) It always results in the formation of zygore (v) Offspring formed are clones (a) (i) and (iv) (b) (i), (ii) and (iv) (c) (i, (ii) and (iii)

(d) (i), (ii) and (iv)

Ans: (c) (i), (ii) and (iii)

Explanation: Off-springs formed by sexual reproduction are not clones, hence statement (iv) is wrong.

19. In Figure 8.1, the parts A, B and C are sequentially

- (a) cotyledon, plumule and radicle
- (b) plumule, radicle and cotyledon
- (c) plumule, cotyledon and radicle
- (d) radicle, cotyledon and plumule

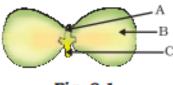


Fig. 8.1

Ans: (c) plumule, cotyledon and radicle

20. 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

Ans: (b) genetic material comes from two parents of the same species

21. Reproduction is essential for living organisms in order to

- (a) keep the individual organism alive
- (b) fulfil their energy requirement
- (c) maintain growth

- (d) continue the species generation after generation
- Ans: (d) continue the species generation after generation
- 22. 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 Ans: (c) cracking of voice 3. In human females, an event that reflects the onset of the reproductive phase is (a) growth of body (b) changes in hair pattern (c) change in voice (d) menstruation 24. 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 Ans: (b) formation of sperm 25. Which among the following is not the function of testes at puberty? (i) formation of gern cells (ii) secretion of estrogen (a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv) 26. The correct sequence of organs in the male reproductive system for transport of sperms is (a) testis → vasdeferens → urethra (b) testis → urethra

- (c) testis \rightarrow urethra \rightarrow ureter
- (d) testis \rightarrow vasdeferens \rightarrow ureter
- Ans: (a) testis \rightarrow vasdeferens \rightarrow urethra
- 27. Which among the following diseases is not sexually transmitted?
 - (a) Syphillis

. **8**

- (b) Hepatitis
- (c) HIV AIDS
- (d) Gonorrhoea

Ans: (b) Hepatitis

Explanation: Hepatitis spreads through contaminated food and water.

Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

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

1.	Assertion(A) Reason (R)		Asexual reproduction is a primitive type of reproduction. Asexual reproduction involves only mitotic cell division.	
		Ar	Answer (a) Both A and R are true and R is the correct explanation of A.	
2.	Assertion(A) Reason (R)		Spores are unicellular bodies. The parent body simply breaks up into smaller pieces on maturation.	
		Ar	Answer (c) A is true but R is false.	
3.	Assertion(A) Reason (R)	: :	Clones are offspring of an organism formed by asexual reproduction. Clones have exact copies of DNA as their parent.	
		Answer (b) Both A and R are true but R is not the correct explanation of A.		
4.	Assertion(A) Reason (R)	:	Colonies of yeast multiply in sugar solution. Sugar is made of sucrose which provides energy for sustaining all life activities.	
		Answer (a) Both A and R are true and R is the correct explanation of A.		
5.	Assertion(A) Reason (R)	: :	Pollen grains from the carpel stick to the stigma of stamen. The fertilised egg cells grow inside the ovules and become seeds.	
		Ar	nswer (d) A is false but R is true.	
6.	Assertion(A)	:	The offspring produced by sexual reproduction is likely to adjust better in environmental fluctuation.	

R

R 8

, <mark>R</mark>		
~	Reason (R)	: During the fusion of gametes there is mixing of genetic material from two parents.
~		Answer (a) Both A and R are true and R is the correct explanation of A.
7	Assertion(A) Reason (R)	Growth hormone stimulates the growth of different body parts.Gonadotropins stimulate the production of sex hormones.
		Answer (b) Both A and R are true but R is not the correct explanation of A.
	Assertion(A) Reason (R)	 Testes lie in penis outside the body. Sperms require temperature lower than the body temperature for Development.
~		Answer (d) A is false but R is true.

R

R

Ref.