



BIOLOGY

BOOKS - NTA MOCK TESTS

REPRODUCTION IN ORGANISMS TEST-

1

Single Choice

1. All the following are disadvantages of a sexual reproduction, except

- A. adaptability to environmental changes is poor
- B. there is no genetic recombination and do not generate variations
- C. they cause overcrowding and exhaust the resources and nutrients
- D. young ones are genetically identical with parents and retain desirable traits

Answer: D



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2. Water hyacinth or "Terror of Bengal"

(a) Was introduced in India because of its beautiful foliage and flowers.

(b) is the most invasive weed found growing wherever there is stagnant water.

(c) Can propagate sexually by offset at a phenomenal rate.

Select the correct set of statements:

A. Only (a).

B. Only (a) and (c).

C. Only (a) and (b).

D. All (a), (b) and (c).

Answer: C



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3. Which of the following organisms are correctly paired with its life span?

A. Crow - 15 years

B. Butterfly - 3 weeks

C. Parrot - 40 years

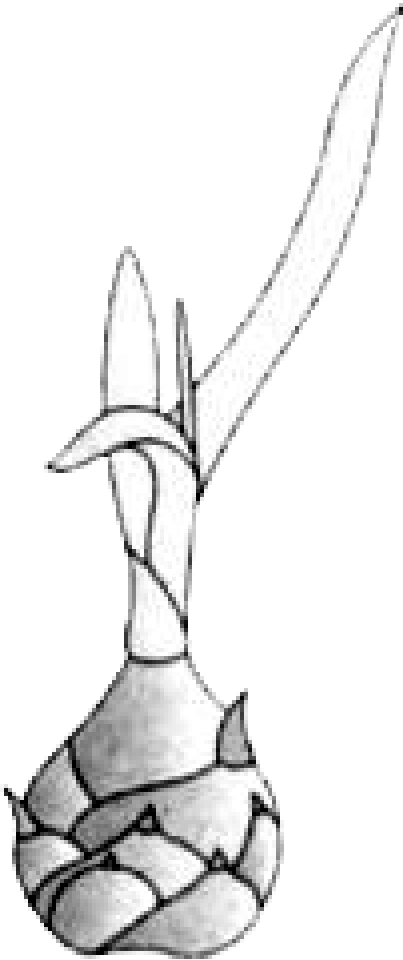
D. Crocodile - 100-150 years

Answer: A



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4. The given vegetative propagule is



A. rhizome of Oxalis.

B. bulb of Onion.

C. bulbil of Agave.

D. corm of Amorphophallus.

Answer: C



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5. Animals giving birth to young ones are:

A. Oviparous

B. Ovoviviparous

C. Viviparous

D. Both Ovoviviparous and Viviparous

Answer: C



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6. Which of the following is the first cell of the new generation in all sexually reproducing organisms?

A. Embryo

B. Zygote

C. Gamete

D. Spore

Answer: B



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7. Syngamy means:

A. Fusion of similar spores

B. Fusion of dissimilar spores

C. Fusion of cytoplasm

D. Fusion of gametes

Answer: D



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8. Find out the correct order of vegetative propagules of plants: potato, ginger, Agave, Bryophyllum and water hyacinth.

A. Offset, bulbil, leaf bud, rhizome and eyes

B. Leaf bud, bulbil, offset, rhizome and eyes

C. Eyes, rhizome, bulbil, leaf bud and offset

D. Rhizome, bulbil, leaf bud, eyes and offset

Answer: C



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9. In maize, a meiocyte has 20 chromosomes.

What will be the number of chromosomes in its somatic cell?

A. 40

B. 30

C. 20

D. 10

Answer: C



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10. Which of the following is incorrect with respect to zygote?

- A. First cell of the sporophytes generation
- B. Vital link between two successive generations
- C. Always diploid
- D. Always divide by meiotic division

Answer: D



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11. Select the incorrect statement w.r.t. asexual reproduction:

A. It occurs with or without gamete formation.

B. It involves only one parent.

C. Variations in offsprings are must in this reproduction.

D. It is simple and quick method of multiplication.

Answer: C



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12. In flowering plants

A. both male and female gametes are motile

B. male gametes are motile and female gametes are non-motile

C. both male and female gametes are non-motile

D. male gametes are non-motile while female gametes are motile

Answer: C



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13. Reproduction is a biological process in which an organism gives rise to young ones

similar to itself. Which of the following statement is false regarding this process?

- A. It maintains the continuity of species.
- B. It maintains the population of organism.
- C. It does not induce variations.
- D. Life exists on earth due to reproduction.

Answer: C



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14. All of the following statements are correct, except

A. No mixing of genetic material or new variations are generated by asexual methods of reproduction.

B. Life expectancy is based on average life span.

C. Most hermaphrodites do not reproduce by self fertilisation.

D. Asexual reproduction is seen in

Periplaneta.

Answer: D



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15. Isogamous condition with non-flagellated gametes is found in:

A. Spirogyra

B. Volvox

C. Fucus

D. Chlamydomonas

Answer: A



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16. In which of the following, internal fertilization occurs?

A. Majority of fishes

B. Amphibians

C. Most of the algae

D. Bryophytes and Pteridophytes

Answer: D



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17. Spirogyra is a sexually reproducing alga in which vegetative thallus is haploid. In Spirogyra, meiosis

A. never occurs

B. occurs at the time of gamete production

C. occurs after fertilization

D. occurs during the vegetative growth

Answer: C



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18. Which of the following is a wrongly matched pair?

A. Tuber - Potato

B. Rhizome - Ginger

C. Bulbil - Agave

D. Leaf buds - Banana

Answer: D



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19. Asexual method of reproduction by binary fission is common to which of the following?

(i) Some eukaryotes

(ii) All eukaryotes

(iii) Some prokaryotes

(iv) All prokaryotes

A. (i) and (ii)

B. (ii) and (iii)

C. (i) and (iii)

D. (iii) and (iv)

Answer: C



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20. Mark the wrong statement:

A. Meioocytes are gamete mother cells found in diploid sexually reproducing organisms.

B. Oogenesis, ovulation and implantation are pre fertilization events.

C. Reptiles lay cleidoic eggs.

D. Thelytoky is seen in rotifers.

Answer: B



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21. Plants such as bryophytes, pteridophytes, gymnosperm and angiosperms are similar in

- (a) Medium used for transfer of male gametes
- (b) Producing heterogametes
- (c) Having internal fertilisation
- (d) Embryo formation

Which of the following options are correct?

- A. Only (a) and (b) are correct
- B. Only (b), (c) and (d) are correct

C. Only (a), (b) and (c) are correct

D. (a), (b), (c) and (d) are correct

Answer: B



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22. Which of the following statements is/are correct?

(a) Clone is a group of morphologically identical but genetically dissimilar individuals.

(b) In protists and monerans, cell division is

itself a mode of reproduction.

(c) Bud formation in yeast is also a kind of asexual reproduction.

A. Only (a) and (c).

B. Only (b).

C. Only (b) and (c).

D. All (a), (b) and (c).

Answer: C



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23. Transfer of non-motile male gametes through pollen tubes occurs in -----

A. all spermatophytes

B. flowering plants only

C. pteridophytes, gymnosperms and
angiosperms

D. few gymnosperms and all angiosperms

Answer: A



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24. The male gametes of rice plant have 12 chromosomes in their nucleus. The chromosome number in the female gamete, zygote and the cells of the seedling will be, respectively,

A. 12,24,12

B. 24,12,12

C. 12,24,24

D. 24,12,24

Answer: C



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25. Choose the correct statement from amongst the following.

A. Dioecious organisms are seen only in animals.

B. Dioecious organisms are seen only in plants.

C. Dioecious organisms are seen in both plants and animals.

D. Dioecious organisms are seen only in vertebrates.

Answer: C



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26. Which of the following is correct w.r.t. sexual reproduction?

A. It can occur between individuals of different species.

B. It involves fusion of gametes only within the body.

C. It produces offsprings identical with the parents.

D. It induces variations and enhances the genetic diversity in a population.

Answer: D



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27. Which of the following plants does not show clear-cut vegetative, reproductive and senescent phase?

A. Perennial plants

B. Annual plants

C. Seasonal plants

D. Both (B) and (C)

Answer: A



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28. The "eyes" of the potato tubers are:

- A. Root buds
- B. Flower buds
- C. Shoot buds
- D. Axillary buds

Answer: D



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29. Organisms reproducing throughout the year are called _____ breeders, e.g., _____ and those who show recurring sexual activity are called _____ breeders, e.g., _____ .

A. continuous, sparrow, seasonal, hen

B. seasonal, lizard, continuous, hen

C. continuous, man, seasonal, tiger

D. seasonal, hen, continuous, tiger

Answer: C



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30. Mark the wrong statement:

A. An individual in the colony of clones is called ramet.

B. In *Gonyaulax*, the plane of division during binary fission is oblique.

C. The maximum life span of a crow is 15 years.

D. Meiotic divisions are seen in asexual methods of reproduction.

Answer: D



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