



BIOLOGY

BOOKS - MBD BIOLOGY (ODIA ENGLISH)

REPRODUCTION IN ORGANISMS

Question Bank

1. Vegetative reproduction means:

- A. A plant portion is used as means of propagation
- B. Seed is used as means of propagation
- C. Fruit is used as means of propagation
- D. Vegetative reproduction is an important characteristic feature of all living organisms.

Answer: A



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2. Micro propagation is based on:

A. Tissue culture

B. Hybridization

C. Microtome

D. Genetic control

Answer: A



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3. Grafting attempted in those plants which show:

A. Adventitious roots

B. buds

C. herbaceous stem

D. Secondary growth

Answer: D



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4. The separation of single cell from the rest of the cells is :

A. Organ culture

B. Tissue culture

C. Basal medium

D. Nurse tissue

Answer: D



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5. Banana is multiplied by means of :

A. Seeds

B. Leaf margins

C. Rhizome

D. Offsets

Answer: C



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6. Layering is performed in case of:

A. Jasmine

B. Grapevine

C. Hose berry

D. Litchi

Answer: A



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7. In grafting scion forms:

A. Shoot system

B. Root system

C. New plant

D. Hybrid Plants

Answer: A



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8. Bud grafting is commonly used in:

A. Litchi

B. pomegranate

C. Rose

D. Jasmine

Answer: C



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9. Vegetative propagated plants :

A. Clone of their Parent

B. Show adaptive variations

C. Better fitted for struggle for existence

D. Stoutier than parents

Answer: A



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10. Stem cuttings are employed in the propagation of:

A. Banana

B. Mango

C. Sugarcane

D. Cotton

Answer: C



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11. Scion is the term used in relation to:

- A. Embryology
- B. Grafting
- C. Agamospermy
- D. Emasculation

Answer: B



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12. Clone is a group of individual got through:

A. Self pollination

B. Cross pollination

C. Vegetative propagation

D. Hybridization

Answer: C



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13. Which one of the following is not a method of asexual reproduction?

A. Cutting

B. Grafting

C. Budding

D. Conjugation

Answer: A



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14. Which is not a method of vegetative propagation?

A. Micro propagation

B. Sowing

C. Budding

D. Layering

Answer: B



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15. Which is correct about anthers .They are:

A. Haploid

B. Diploid

C. Diploid as well as triploid

D. Haploid, diploid and triploid

Answer: A



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16. Which one is female gametophyte?

A. Embryo

B. Embryo sac

C. Endosperm

D. Synergid

Answer: B



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17. In papaya, the flowers are:

A. Unisexual

B. Bisexual

C. Neuter

D. Flowers are not formed

Answer: A



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18. Flower of Hibiscus is:

A. Bisexual

B. Unisexual

C. Neuter

D. very small

Answer: A



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19. In vegetative propagation ,characters of plants are:

A. Changed

B. Not preserved

C. Preserved

D. Exchanged

Answer: C



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20. Menstrual cycle is completed in:

A. 30 days

B. 31 days

C. 28 days

D. 27 days

Answer: C



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21. Period of pregnancy is called:

- A. Gestation period
- B. Incubation period
- C. Pre-patent period
- D. Blastula ion

Answer: A



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22. The process of release of egg from the ovary is called:

A. Reproduction

B. Ovulation

C. Menstruation

D. Insemination

Answer: B



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23. Man is :

A. Unisexual

B. Bisexual

C. Hermaphroditic

D. Protogynous

Answer: A



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24. The DNA in the cell _____ is the information source for making proteins:

A. Nucleus

B. Ribosome

C. Cell wall

D. Plasma membrane

Answer: B



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25. Rhizopus reproduces asexually by:

A. conidia

B. Spores

C. Gemma

D. Bulbil

Answer: D



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26. Bryophyllum can be propagated vegetatively by:

A. Stem

B. Root

C. Leaf

D. Flower

Answer: C



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27. In potato vegetative propagation takes place by:

A. Root

B. Leaf

C. Grafting

D. Stem tuber

Answer: D



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28. Find out correct order of vegetative propagules of plants like potato , ginger Agava
Bry

- A. Offset,bulbil,leaf,bud rhizome and,eyes
- B. Leafbud ,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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29. Embryo sac is found in :

A. Endospem

B. Embryo

C. Ovule

D. Seed

Answer: C



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30. 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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31. During favourable conditions, Amoeba reproduced by:

- A. Binary fission
- B. Multiple fission
- C. Both of these
- D. None of these

Answer: A



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32. Who worked on embryological aspects and popularised the use of embryological characters in taxonomy ?

A. P.Guha

B. P. Maheshwari

C. Ivanovsky

D. D.Graaf

Answer: B



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33. Which of the following is not immortal?

A. Banyan tree

B. Amoeba

C. Euglena

D. Paramecium

Answer: A



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34. Life span of Cow is 20-25 years. What is the life span of horse?

A. 140 years

B. 20-30 years

C. 100-150 years

D. 60 years

Answer: D



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35. Reproduction is a biological process in which an organism gives rise to young ones (offspring similar to itself) .An organism's method of reproduction depends upon factors:

- A. Habitat
- B. Internal physiology
- C. Genetic makeup
- D. All of the above

Answer: D





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36. Asexual reproduction is carried out by:

A. Single Parent

B. Without fusion of gametes

C. with or without formation of gametes

D. All of the above

Answer: D



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37. Clone is two or more individuals which are similar:

- A. genetically
- B. morphologically
- C. sexually
- D. Both(a)and (b)

Answer: D



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38. Mode of vegetative propagation in Pistia.

A. stolon

B. offset

C. runner

D. sucker

Answer: B



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39. Breeding of crops with high levels of minerals, vitamins and proteins is called:

A. Somatic hybridisation

B. Bio fortification

C. Micropropagation

D. Biomagnification

Answer: B



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40. Identify odd one of the following :

A. Viola

B. Yucca

C. Oxalis

D. Zostera

Answer: D



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41. Which of the following is wrongly matched pair:

A. Tuber-potato

B. Rhizome-Ginger

C. Bulbil-Agave

D. Leaf buds -Banana

Answer: D



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42. Blue stretches were formed by flower once
in

A. 15 years

B. 12 years

C. 20 years

D. 48 years

Answer: B



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43. Find out the wrong pair with respect to number of chromosomes in meriocytes:

A. Fruit fly -8

B. Apple -36

C. Rice -24

D. House fly -12

Answer: B



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44. In case of Marchantia, antheridium is produced by:

- A. female thallus
- B. male thallus
- C. monocious plant
- D. None of the above

Answer: B



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45. Which of the following require water for gamete transfer ?

A. Algae, bryophytes and pteridophyta

B. Pteridophytes only

C. gymnosperms

D. Angiosperms

Answer: A



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46. Embryogenesis is a process of development of embryo from the zygote.

During this process zygote undergoes:

- A. meiosis
- B. cell division (mitosis)
- C. cell differentiation
- D. Both (B) and (C)

Answer: D



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47. Female gamete undergoes development to form new organisms without fertilization. The process is called parthenogenesis. It occurs in:

- A. Rotifers
- B. Turkey birds
- C. Some reptiles
- D. All of the above

Answer: D



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48. Zygote develops into:

A. Embryo

B. Ovule

C. Seed

D. Fruit

Answer: A



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49. Chances of survival of young ones is greater in:

A. fishes

B. eutherian mammals

C. birds

D. Amphibians

Answer: B



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50. Which of the following have haploid plant body in most of the organisms ?

A. Monera

B. Fungi

C. Algae and Bryophytes

D. All of above

Answer: D



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51. In which pair both the plants can be vegetatively propagated by leaf pieces ?

A. Bryophyllum and Kalanchoe

B. Chrysanthemum and Agave

C. Agave and Kalanchoe

D. Asparagus and Bryophyllum

Answer: A



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52. During oogenesis, each diploid oocyte produces:

A. Four functional ova

B. Two functional eggs and two polar bodies

C. Four functional polar bodies

D. One functional egg and three polar bodies

Answer: B



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53. Corm is a modification of

A. Root

B. Leaf

C. Stem

D. Bud

Answer: B



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54. The potential of plant cell to develop into a full plant is:

A. Reproduction

B. Budding

C. Totipotency

D. Pleuripotency

Answer: C



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55. The part where fertilization of ovum takes place in rabbit, humans and other placental mammals is:

A. Ovary

B. Uterus

C. Vagina

D. Fallopian tube

Answer: D



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56. Hydra reproduces asexually through:

A. Fragmentation

B. Budding

C. Binary fission

D. Sporulation

Answer: B



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57. Name the largest bird of the world.

A. Emu

B. Penguin

C. Kiwi

D. Ostrich

Answer: D



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58. Animals giving birth to young ones are:

A. Oviparous

B. Ovoviviparous

C. Viviparous

D. Both(B) and (C)

Answer: C



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59. A scion is grafted to a stock . The quality of fruits produced will be determined by the genotype of :

A. Stock

B. Scion

C. Both stock and scion

D. Neither stock nor scion

Answer: B



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60. Living organisms can be unexceptionally distinguished from the non-living things on the basis of their ability for :

A. Interaction with environment and progressive evolution

B. Reproduction

C. Growth and movement

D. Response to touch

Answer: B





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61. Many scientists consider viruses as living entities because these:

- A. Respire
- B. Can cause disease
- C. Reproduce (inside host)
- D. Respond to tough environment

Answer: C



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62. The mode of asexual reproduction in bacteria are:

- A. Formation of gametes
- B. Endospore formation
- C. Conjugation
- D. Zoospore formation

Answer: C



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63. Vegetative propagation by leaf takes place in :

A. Ginger

B. Bryophyllum

C. Rose

D. Duranta

Answer: B



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64. Vegetative propagation is observed in :

A. Banyan

B. Bryophyllum

C. Ipomea

D. Rhizophora

Answer: D



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65. Somaclonal variation appears in plants:

A. Growing in polluted soil or water

B. Exposed to gamma rays

C. Raised in tissue culture

D. Transformed by recombinant DNA
technology

Answer: C



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66. Development of fruit without fertilization is called:

- A. Cell division
- B. cell culture
- C. Parthenocarpy
- D. None of the above

Answer: C



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67. Vegetative propagation in mint occurs by :

A. Runner

B. Offset

C. Rhizome

D. Sucker

Answer: A



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68. Nuclear membrane is absent in :

A. Monera

B. Protista

C. Fungi

D. plantae

Answer: B



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69. One of the following is not the characteristic feature of cyanobacteria:

A. They are multicellular.

B. They form colonies

C. They form blooms in polluted water
bodies

D. They can fix atmospheric nitrogen.

Answer: A



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70. Micro propagation is a technique:

A. For production of true to type plants

B. For production of haploid plant

C. Form production od somatic hybrids

D. For production of somaclonal plants

Answer: C



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71. Mode of vegetative propagation in Pistia.

A. Stolon

B. Offset

C. runner

D. Sucker

Answer: B



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72. What is common between vegetative reproduction and apomixis ?

A. Both occur round the year

B. Both produce progeny identical to the parent

C. Both are applicable to only dicot plants

D. Both bypass the flowering to only plant

Answer: B



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73. Which one of the following pairs is wrongly matched, while the remainings three are correct ?

A. Bryophyllum -Leaf buds

B. Agave -Bulbils

C. Penicillium -Conidia

D. Water hyacinth - runner

Answer: D



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

A. Root buds

B. Flower buds

C. Shoot buds

D. Auxiliary buds

Answer: D



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75. Even in absence of pollinating agents seed setting is assured in :

A. Zostera

B. Salvia

C. Fig

D. Commellina

Answer: C



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76. Which one of the following is correctly matched ?

A. Ginger -Sucker

B. Chlamydomonas -Conidia

C. Yeast -Zoospores

D. Onion-Bulb

Answer: D



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77. Match the following and choose the correct combination from the option given .

Column I	Column II
(Organism)	(Approximate life span)
(a) Butterfly	1. 60 years
(b) Crow	2. 140 years
(c) Parrot	3. 15 years
(d) Crocodile	4. 1 – 2 weeks

A. A) a-1, b-2, c-3, d-4

B. B) a-4, b-3, c-1, d-2

C. C) a-2, b-3, c-4, d-1

D. D) a-4, b-3, c-2, d-1

Answer: D



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78. Product of sexual reproduction generally generates.

A. Prolonged dormancy

B. New genetic combination leading to variation

C. Large biomass

D. Longer viability of seeds

Answer: B



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79. Meiosis takes place in:

A. Conidia

B. Gemmule

C. Megaspore

D. Meiocyte

Answer: D



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

A. Spirogyra

B. Volvox

C. Fucus

D. Chlamydomonas

Answer: A



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81. In diploid organism which cells undergo meiosis ?



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82. What are the chromosome number in the meiocytes in human beings ?



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83. What are the chromosome number in the meiocytes of house fly.



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84. What are the chromosome number in the meiocytes of Dog ?



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85. What are the chromosome number in the meiocytes of maize ?



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86. What term is used for the process of development of embryo ?



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87. What structures are formed from a plant ovary ?



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88. What structures is used for a period from birth to natural death in an organism.



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89. What term is used for morphologically and genetically similar individual ?



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90. In what type of reproduction male and female gametes are involved ?



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91. How many years is life span of a parrot ?



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92. How many year does a tortoise live ?



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93. In which animals oestrous cycle occurs ?



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94. In which animals menstrual cycle occurs?



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95. What term is used for the process of formation of gamete.



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96. The fusion of two vegetative nuclei is called _____



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97. Development of fruit without fertilization is called:



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98. Development of sporophyte from gametophytes is called_____



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99. Development of sporophyte from gametophytes is called_____



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100. Chromosome number in gametes of human being is _____



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101. Chromosome number in the meiocyte of onion _____



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102. Chromosome number in the meiocyte of onion_____



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103. Porifera reproduce by special internal buds are called_____



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104. Karyokinesis is the division to form two daughter _____



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105. Amoeba reproduces asexually by binary fission as well as _____



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106. Gametes are diploid



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107. Unisexual organism posses both reproductive organ.



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108. In flowing plant,unisexual male flower is pistillate .



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109. The egg laying animals are called viviparous.



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110. Syngamy results in formation of a diploid gamete.



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111. When fertilization occurs outside of the body of the organisms is called external fertilization



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112. The ovary develops into seed.



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113. Hydro reproduces asexually by Gemmulation.



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114. Morphologically and genetically similar organisms are called offsprings.



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115. Fusion of two incompatible gametes such as two female gametes is called parthenogamy.

A. True

B. False

C.

D.

Answer: Partenogamy



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116. Vegetative reproduction means:



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117. What are clones?



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118. Why meiosis and gametogenesis are always linked? Explain.



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119. Offsprings formed due to sexual reproduction have better chance of survival.

Why is this statement always true ?



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120. Higher organisms resorted sexual reproduction in spite of its complexity. Why?



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121. Define external fertilization Mention its disadvantages.



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Question Bank

1. Discuss post-fertilization changes on flower.



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2. Why are offspring of oviparous animals at a greater risk as compared to the offspring of viviparous animals.



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3. What is a gemmule ?



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4. Write a short note on budding in Hydra.



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5. Explain budding in yeast.



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6. Write a short note on multiple fission.



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7. Explain binary fission .



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8. Differentiate between asexual reproduction and sexual reproduction.



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9. Differentiate between binary fission and multiple fission.



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10. Differentiate between : Ovipary and Vivipary



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11. Writes Short Notes on : Asexual reproduction:



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12. Writes Short Notes on : Vegetative reproduction in plants.



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