



# **BIOLOGY**

## **BOOKS - MBD BIOLOGY (ODIA ENGLISH)**

### **SEXUAL REORODUCTION IN FLOWERING PLANTS**

**Question Bank**

1. Parthenocarpic tomato fruits can be produced by:

A. Treating the plants with phenylmercuric acetate

B. Removing androecium of flowers before pollen grains are released

C. Treating the plants with low concentrations of gibberellic acid and auxins

D. Raising the plants from vernalized seeds

**Answer: C**



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2. How many meiotic divisions should take place to produce 100 pollen grains ?

A. 25

B. 50

C. 100

D. 200

**Answer: A**



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**3.** The arrangement of the nuclei in a normal embryo sac in the dicot plants is

A.  $3+3+2$

B.  $2+4+2$

C.  $3+2+3$

D.  $2+3+3$

**Answer: C**



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4. What is the number of chromosomes in aleurone layer if 10 number of chromosomes are found in megaspore mother cell?

A. 5

B. 10

C. 15

D. 20

**Answer: C**



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5. Grafting is successful in dicots but not in monocots because the dicots have:

A. Vascular bundles arranged in a ring

B. Cambium for secondary growth

C. Vessels with elements arranged end to end

D. Cork cambium

**Answer: B**



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**6.** 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 or scion

**Answer: B**



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7. Plants of which one of the following groups of genera are pollinated by the same agency ?



A. Triticum ,Cocos, Mangifera

B. Ficus, Kigelia, Casuarina

C. Salvia, Morus Euphorbia

D. Bombox, Butea, Bauhinia

**Answer: D**



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**8. In nature, cleistogamous flowers are :**

A. self-pollinated

B. Insect-pollinated

C. Wind-pollinated

D. Bird-pollinated

**Answer: A**



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**9.** In the angiosperm ovule central cell of the ,  
embryo sac, prior to the entry of pollen tube,  
contains:

- A. A single haploid nucleus
- B. One diploid and one haploid nucleus
- C. Two haploid polar nuclei
- D. One diploid secondary nucleus

**Answer: C**



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**10.** From which cells of embryo plumule is produced?

A. Proembryo

B. Hypophysis

C. Apical octant

D. Micropylar octant

**Answer: C**



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**11.** In these plants artificial vegetative reproduction is possible through cuttings of root :

A. Lemon and rose

B. Rose and Hibiscus

C. Tamarind and Chrysanthemum

D. Lemon and tamarind

**Answer: D**



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**12.** From which cells peripheral region of radical is produced ?

A. Vegetative cell

B. Hypophysis

C. Apical octant

D. Micropylar octant

**Answer: B**



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**13.** Name the process of embryo sac formation from cell of nucellus, without undergoing meiosis.

A. Polyembryony

B. Incompatibility

C. Parthenocarpy

D. Parthenogenesis

**Answer: D**



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**14. Mesogamy is :**

A. Fusion of male and female gametes

B. Fusion of physiologically similar and morphologically different gametes

C. Entry of pollen tube through integuments

D. None of the above

**Answer: C**



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15. Nucellus forms which of the following part of fruit ?

A. Seed coat

B. Perisperm

C. Seed

D. Raphe

**Answer: B**



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16. Pappus is present in compositae for :

- A. Air dispersion
- B. Insect pollination
- C. Water pollination
- D. None of the above

**Answer: D**



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17. Number of chromosome in an angiospermic plant is 14, then the number of chromosome in synergid cells will be :

A. 14

B. 7

C. 18

D. 21

**Answer: B**



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**18.** Double fertilization is the process in the plants that includes

- A. Syngamy and triple fusion
- B. Only triple fusion
- C. Development of antipodal cells
- D. None of the above

**Answer: A**



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19. Which statement is true for angiosperms ?

A. Microspore is the resultant of mitotic division

B. Microspore is the 1st cell of gametophytic generation

C. Microspore is the resultant of double fertilization

D. Microspore is the first cell of endosperm

**Answer: B**



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20. Unisexuality of flowers prevents :

- A. Geitonogamy, but not xenogamy
- B. Autogamy and geitonogamy
- C. Autogamy, but not geitonogamy
- D. Both geitonogamy and xenogamy

**Answer: C**



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21. Which one of the following pairs of plant structures has haploid number of chromosomes ?

A. Nucelus and antipodal cells

B. Egg nucleus and secondary nucleus

C. Megaspore mother cell and antipodal cells

D. Egg cell and antipodal cells

**Answer: D**



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22. Which of the following shows triploid nature in flowering plants ?

A. megaspore

B. microspore

C. embryo

D. endosperm

**Answer: D**



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23. Which one of the following is not a device to promote cross-pollination ?

A. Cleistogamy

B. Heterostyle

C. Herkogamy

D. Dichogamy

**Answer: A**



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24. Choose the mis-matched option.

A. wind-Cannabis-anemophily

B. water-Zoostera-hydrophily

C. insects-Salvia-entomophily

D. birds-Adansonia-ornithophily

**Answer: D**



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25. A typical angiosperm embryo sac at maturity is :

A. 4 nucleate-2 celled

B. 8 nucleate-7 celled

C. 4 nucleate - 4celled

D. 8 nucleate - 4 celled

**Answer: B**



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26. Ornithophily refers to the pollination by which of the following ?

A. Insects

B. Birds

C. Snails

D. Air

**Answer: B**



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27. Vegetative propagation in mint occurs by :

A. Offset

B. Rhizome

C. Sucker

D. Runner

**Answer: C**



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**28.** The water of green coconut is :

A. Liquid endosperm

B. Seed

C. Mesocarp

D. Endocarp

**Answer: A**



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29. The hilum and micropyle lie side by side very close to each other in :

- A. Anatropous ovule
- B. Campylotropous ovule
- C. Amphitropous ovule
- D. Circinotropous ovule

**Answer: A**



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30. Embryo axis above the cotyledon is called as :

A. Epicotyl

B. Hypocotyl

C. Funicle

D. Raphe

**Answer: A**



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**31.** Fusion of male gamete with polar nuclei of embryo sac is known as :

A. Double fertilization

B. Embryogeny

C. Pollination

D. Triple fusion

**Answer: D**



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32. Vegetative fertilisation is also called :

A. Triple fusion

B. True fertilisation

C. Syngamy

D. Generative fertilisation

**Answer: A**



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**33.** In which of the following kinds of ovules, the embryo sac is horse-shoe shaped ?

A. Hemotropous ovule

B. Orthotropous ovule

C. Amphitropous ovule

D. Circinotropous ovule

**Answer: C**



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**34.** The residual persistent nucellus is known as :

A. Perisperm

B. Pericarp

C. Integument

D. None of the these

**Answer: A**



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**35. Which one is female gametophyte?**

A. Carpel

B. Ovule

C. Embryo sac

D. Egg

**Answer: C**



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**36.** Mode of vegetative propagation in Pistia.

A. Stolon

B. Offset

C. Runner

D. Sucker

**Answer: B**



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**37.** The egg apparatus of angiosperm comprises :

- A. An egg cell and two antipodals
- B. An egg cell and two synergids
- C. An egg cell and two polar nuclei
- D. An egg cell and the central cell

**Answer: B**



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**38.** Transfer of pollen grains from anther to stigma of the same flower.

A. Geitonogamy

B. Xenogamy

C. Autogamy

D. Apogamy

**Answer: C**



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**39.** When pollens are transferred from anther of a flower to stigma of another flower of the same plant , pollination is referred to as :

- A. Xenogamy
- B. Geitonogamy
- C. Autogamy
- D. Allogamy

**Answer: B**



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40. Ovule integument gets transformed into :

A. Seed

B. Fruit wall

C. Seed coat

D. Cotyledons

**Answer: C**



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41. What would be the number of chromosomes of the aleurone cells of a plant with 42 chromosomes in its root tip cells ?

A. 42

B. 63

C. 84

D. 21

**Answer: B**



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42. Which one of the following pollination autogamous ?

A. Geitonogamy

B. Xenogamy

C. Chasmogamy

D. Cleistogamy

**Answer: D**



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**43.** In angiosperms, functional megaspore develops into :

A. Embryo sac

B. Ovule

C. Endosperm

D. Pollen sac

**Answer: A**



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**44.** The presence of filiform apparatus is the characteristic feature of

A. Suspensor

B. Egg

C. Synergid

D. Zygote

**Answer: C**



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**45.** Wind pollination is common in :

A. Legumes

B. Lilies

C. Grasses

D. Orchids

**Answer: C**



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**46.** What is common between vegetative reproduction and apomixis ?

- A. Both are applicable to only dicot plants
- B. Both bypass the flowering phase
- C. Both occur round the year
- D. Both produce progeny identical to the parent

**Answer: D**



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**47.** The formation of pericarp takes place from  
:

- A. Ovary wall
- B. Outer integument
- C. Inner integument
- D. Placenta

**Answer: A**



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**48.** Find out the odd one.

A. Embryo sac

B. Micropyle

C. Nucellus

D. Pollen grain

**Answer: D**



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**49.** Ovule is attached to placenta of ovary wall  
by :

A. Funicle

B. Hilum

C. Raphe

D. Chalaza

**Answer: A**



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50. Entry of the pollen tube with two male gametes and tube nucleus through micropyle is called :

A. Mesogamy

B. Porogamy

C. Chalazogamy

D. Autogamy

**Answer: B**



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51. In case of Bryophyllum, vegetative propagation occurs by adventitious buds developed on :

A. Roots

B. Stem

C. Leaves

D. Flower

**Answer: C**



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52. Which is not a method of artificial vegetative propagation ?

A. Budding

B. Cutting

C. Layering

D. Grafting

**Answer: A**



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53. Which is not associated with sexual reproduction in angiosperms ?

- A. Microsporogenesis
- B. microgametogenesis
- C. Micropropagation
- D. Megasporogenesis

**Answer: C**



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54. Apomixis on plant means, development of a plant :

- A. By fusion of gametes
- B. Without fusion of gametes
- C. From stem cutting
- D. From root cutting

**Answer: B**



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55. Stem cuttings are employed in the propagation of:

A. Cotton

B. Mango

C. Sugarcane

D. Brassica

**Answer: C**



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**56.** Name the process of embryo sac formation from cell of nucellus, without undergoing meiosis.

A. Apogamy

B. Apospory

C. Parthenogenesis

D. Sporogenesis

**Answer: B**



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57. The major application of embryo culture is in :

- A. Production of alkaloids
- B. Clonal propagation
- C. Overcoming hybridization barriers
- D. Induction of somaclonal variation

**Answer: C**



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58. Apomixis on plant means, development of a plant :

A. New organism without fusion of gametes

B. New organism from fusion products of gametes

C. Embryo from endosperm

D. Embryo from nucellus

**Answer: A**



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**59.** In monocots, grafting is almost impossible because they lack :

- A. Cambium
- B. Ground tissue
- C. Vascular bundle
- D. Parenchymatous cells

**Answer: A**



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60. Which of the following can not regenerate with the help of layering ?

A. Cactus

B. Rose

C. Mango

D. Jasmine

**Answer: D**



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61. The true embryo develops from the structure formed as a result of fusion of :

- A. Two polar nuclei of embryo sac
- B. Egg cell and female gamete
- C. Egg cell and male gamete
- D. Male gamete and antipodals

**Answer: C**



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**62.** Perisperm in angiospermic seeds is derived from :

A. Nucellus

B. Endosperm

C. Integument

D. Antipodals

**Answer: A**



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**63.** In ovule meiosis occurs in :

A. megaspore

B. Megaspore mother cell

C. Endosperm

D. Sporogonium

**Answer: B**



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**64.** The fusion product of polar nuclei and male gamete is :

- A. Secondary nucleus
- B. Triple fusion
- C. Primary Endosperm Nucleus
- D. Zygote

**Answer: C**



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65. The secondary nucleus after fusing with one of the two male gametes develops into :

A. Endosperm

B. Embryo

C. Seed

D. Fruit

**Answer: A**



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**66.** If an endosperm cell of an angiosperm contains 24 chromosomes, the number of chromosomes in each cell of root will be :

A. 8

B. 4

C. 16

D. 24

**Answer: C**



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67. Ovule is attached to placenta of ovary wall by :

A. Pedicel

B. Petiole

C. Placenta

D. Funicle

**Answer: D**



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**68.** In angiosperms, embryo sac represents :

A. Female gametophyte

B. Sporophyte

C. Male gametophyte

D. None of the above

**Answer: A**



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69. When micropyle, chalaza and hilum lie in straight line, the ovule is said to be :

- A. Anatropous
- B. Orthotropous
- C. Amphitropous
- D. Campylotropous

**Answer: B**



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70. In angiosperms, free nuclear division occurs during :

- A. Gamete formation
- B. Endosperm formation
- C. Embryo sac formation
- D. Both (b) and (c)

**Answer: D**



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71. Tapetum layer around pollen sacs is meant for :

A. Dehiscence

B. Protection

C. Nutrition

D. None of the above

**Answer: C**



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72. In fully developed male gametophyte, number of nuclei is :

A. One

B. Two

C. Three

D. Four

**Answer: C**



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**73.** In a fertilized ovule,  $n$ ,  $2n$  and  $3n$  conditions occur respectively in :

A. Antipodal, zygote and PEN

B. Egg, nucellus and endosperm

C. Endosperm, nucellus and egg

D. Antipodals, synergide and integuments

**Answer: A**



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74. Porogamy is entry for pollen tube through

:

A. Chalaza

B. Funicle

C. Micropyle

D. Integuments

**Answer: C**



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75. Milky water of green cocount is :

- A. Liquid chalaza
- B. Liquid endosperm
- C. Liquid nucellus
- D. Liquid female gametophyte

**Answer: B**



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76. Synergide are :

A. Hexaploid

B. Haploid

C. Diploid

D. Triploid

**Answer: B**



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77. In anther meiosis occurs in :

- A. Tapetal cells
- B. Endothelial cells
- C. Pollen mother cells
- D. Stromium cells

**Answer: C**



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78. Fusion of egg with male gamete is called :

A. Syngamy

B. Apogamy

C. Autogamy

D. None of the above

**Answer: A**



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79. Albuminous seeds store their food in \_\_\_\_\_

A. Cotyledons

B. Endosperm

C. Testa

D. Plumule

**Answer: B**



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**80.** Development of fruit without fertilization is called:

A. Parthenogenesis

B. Parthenocarpy

C. Apomixis

D. Apogamy

**Answer: B**



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**81.** The egg apparatus of angiosperm comprises :

A. Egg

B. Egg and polar nuclei

C. Egg and synergids

D. Egg and antipodal cells

**Answer: C**



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**82.** Germ pore is the region where the exine is

:

A. Thin

B. Uniform

C. Thick and uniform

D. Absent

**Answer: A**



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**83.** Cleistogamous condition is present in :

A. Brassica

B. Solanum tuberosum

C. Commelina

D. Allium cepa

**Answer: C**



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**84.** The arrangement of megaspores in a tetrad in an angiosperm is :

A. Decussate

B. Tetrahedral

C. Linear

D. Isobilateral

**Answer: C**



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**85.** Double fertilization in angiosperms was discovered by :

A. Strasburger

B. J.C.Bose

C. Maheswari

D. Nawaschin

**Answer: D**



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**86.** In a bisexual flower , if androecium and gynoecium mature at different times , the phenomenon is known as :

A. Herkogamy

B. Dichogamy

C. Polygamy

D. Apogamy

**Answer: B**



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87. Allogamy is best favoured by :

A. Dichogamy

B. Dicliny

C. Cleistogamy

D. Homogamy

**Answer: A**



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**88.** In an angiosperm, male plant is diploid and female plant tetraploid, endosperm will be :

- A. Haploid
- B. Triploid
- C. Tetraploid
- D. Pentaploid

**Answer: D**



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89. In angiosperms, embryo sac represents :

A. Microgametophyte

B. Megagametophyte

C. Microsporangium

D. Megasporangium

**Answer: B**



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90. The root cell of wheat plant has 42 chromosomes. What would be the number of chromosomes in the synergid cell ?

- A. 7
- B. 14
- C. 21
- D. 28

**Answer: C**



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91. Anemophilous flowers have :

- A. Sessile stigma
- B. Small smooth stigma
- C. Coloured flower
- D. Large feathery stigma

**Answer: D**



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92. Which among the following are pollinated by bat ?

A. Salvia

B. Ophrys

C. Kigellia

D. Brassica

**Answer: C**



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**93.** Double fertilization in angiospermic plants

means :

A. Fusion of two egg cells with two male gametes

B. Fusion of egg cell twice with male gametes

C. Fusion of one male gamete with the egg cell and the other male gamete with the synergid

D. Fusion of one male gamete with the egg cell and the other male gamete with the secondary nucleus.

**Answer: D**



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**94.** Entry of pollen tube through the chalazal end is called

A. Porogamy



B. Mesogamy

C. Basigamy

D. Syngamy

**Answer: C**



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**95. Pollination in Triticum plant is :**

A. Anemophilous

B. Hydrophilous

C. Entomophilous

D. Zoophilous

**Answer: A**



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**96.** Anemophily is pollination affected by :

A. Water current

B. Birds

C. Wind

D. Insect

**Answer: C**



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**97.** Triple fusion in angiosperms is the fusion of second sperm with :

- A. One antipodal cell and one synergid cell
- B. Two antipodal cells
- C. Two synergid cells

D. Two polar nuclei

**Answer: D**



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**98.** When a diploid female plant is crossed with a tetraploid male, the ploidy of endosperm cells in resulting seed is :

A. Tetraploid

B. Pentaploid

C. Diploid

D. Triploid

**Answer: A**



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**99.** Total number of nuclei involved in double fertilization in angiosperms are :

A. Two

B. Four

C. Five

D. Six

**Answer: C**



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**100.** In *Kilgellia pinnata* / Sausage tree  
pollination is performed by :

A. Bats

B. Birds

C. Insects

D. Wind

**Answer: A**



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**101.** Apple growers usually keep bees in the orchard even though apples are usually wind-pollinated because :

A. Wind-pollination result in apples of inferior quality

B. Insect- pollination result in apples of superior quality

C. Wind-pollination may fail at the right time and bees would bring about pollination in such a situation

D. Bess can inject honey into the apples and make them sweeter

**Answer: C**





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**102.** Self-pollination means :

- A. Occurrence of male and female sex organs in the same flower
- B. Germination of pollen within the same anther
- C. Transference of pollens from anther to stigma within the same flower

D. Transference of pollen from one plant to the stigma of a neighbouring plant

**Answer: C**



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**103.** Stigma is always rough and sticky in :

A. Entomophilous flowers

B. Anemophilous flowers

C. Hydrophilous flowers

D. All types of flowers

**Answer: A**



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**104.** Progeny resulting from cross-pollination :

A. Show greater genetic variability and are evolutionarily important

B. Are homozygous and show phenotypic uniformity

C. Are always sterile

D. Always show recessive character

**Answer: A**



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**105.** In a bisexual flower , if androecium and gynoecium mature at different times , the phenomenon is known as :

A. Dichotomy

B. Dichogamy

C. Heterosporous

D. Heterostyly

**Answer: B**



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**106.** Pollination by ants is :

A. Malacophily

B. myrmecophily

C. Orithophily

D. Entomophily

**Answer: B**



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**107.** Some flowers possess pleasant odour and attractive colours for :

A. Hydrophily

B. Anemophily

C. Entomophily

D. All of the above

**Answer: C**



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**108.** Anemophily means :

A. Pollination by wind

B. Pollination by birds

C. Pollination by animals

D. Animal loving plants

**Answer: A**



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**109.** Wind pollination is common in :

A. Legumes

B. Lilies

C. Grasses

D. Orchids



**Answer: C**



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**110.** Which one of the following pollination autogamous ?

A. Geitonogamy

B. Xenogamy

C. Chasmogamy

D. Cleistogamy

**Answer: D**



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**111.** Embryo sac is :

A. Microgametophyte

B. Microsporangium

C. Megagametophyte

D. Megasporangium

**Answer: C**



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**112.** 8-nucleate embryo sac is :

- A. Monosporic
- B. Bisporic
- C. Tetrasporic
- D. All of the above

**Answer: D**



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**113.** A mature male gametophyte is formed from pollen mother cell by :

- A. One meiotic division
- B. Two meiotic divisions
- C. One meiotic and two mitotic divisions
- D. Three meiotic divisions

**Answer: C**



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114. In ....., pollen tube enters through micropyle into the ovule.

A. Mesogamy

B. Porogamy

C. Dicliny

D. Dichogamy

**Answer: B**



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**115.** Polygonum type of embryo sac is :

- A. 8-nucleate
- B. 16-nucleate
- C. 24-nucleate
- D. 32-nucleate

**Answer: A**



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**116.** Tapetum occurs in :

A. Anther wall

B. Ovary wall

C. Male gametophyte

D. Female gametophyte

**Answer: A**



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**117.** Which one is produced as a result of double fertilization

A. Seed

B. Fruit

C. Megaspore

D. Endosperm

**Answer: D**



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**118.** A component of female reproductive system is :



A. Stamen

B. Anther

C. Microspore

D. Embryo sac

**Answer: D**



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**119.** Mango and Guava are propagated through :

A. Tissue culture

B. Grafting

C. Stem cuttings

D. Layering

**Answer: B**



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**120.** In a grafted plant, stock has 48 chromosomes while scion has 24

chromosomes. The chromosomes number for root cells and eggs are:

A. 48 and 24

B. 24 and 24

C. 24 and 12

D. 48 and 12

**Answer: D**



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121. Pollen grains are non-green due to :

A. Absence of plastids

B. Degeneration of plastids

C. Conversion of plastids into  
chromoplasts

D. Attraction of vectors

**Answer: C**



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122. When a diploid female plant is crossed with a tetraploid male, the ploidy of endosperm cells in resulting seed is :

A.  $2n$

B.  $3n$

C.  $4n$

D.  $5n$

**Answer: C**



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**123.** Multinucleate condition is present in :

A. Quiescent centre

B. Maize

C. Meristematic tissue

D. Liquid endosperm of Coconut

**Answer: D**



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**124.** If meiosis occurs inside pollen grain and egg nuclei, it will be :

- A. Zygotic meiosis
- B. Gametic meiosis
- C. Sporic meiosis
- D. None of the above

**Answer: B**



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**125.** Formation of embryo from vegetative cells derived from zygote is called :

- A. Apomixis
- B. Adventive polyembryony
- C. Apospory
- D. Diploid polyembryony

**Answer: B**



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