



# **BIOLOGY**

## **BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)**

### **MORPHOLOGY OF FLOWERING PLANTS**

**Exercise**

1. Plants, which produce characteristic pneumatophores and show vivipary belong to

- A. mesophytes
- B. halophytes
- C. psammophytes
- D. hyrophytes

**Answer: B**



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2. In Bougainvillea, thorns are the modifications of

A. stipules

B. adventitious root

C. stem

D. leaf

**Answer: C**



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**3.** The morphological nature of the edible part of coconut is

A. perisperm

B. cotyledon

C. endosperm

D. pericarp

**Answer: C**



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4. The standard petal of a papilionaceous corolla is also called

A. pappus

B. vexillum

C. endosperm

D. carina

**Answer: B**



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5. Stem modified for photosynthetic function by appearing like leaves are known as

Or

Leaves are changed into spines in xerophytic structures Called

A. phyllodes

B. phylloclades

C. scales

D. cladodes

**Answer: B**



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6. Which of the following is not a stem modification

A. Thorns of Citrus

B. Tendrils of cucumber

C. Flattened structures of Opuntia

D. Pitcher of Nepenthes

**Answer: D**



7. Tricarpellary syncarpous gynoecium is found in flowers of

A. Solanaceae

B. Fabaceae

C. Poaceae

D. Liliaceae

**Answer: D**



8. Free central placentation is found in

A. Dianthus

B. Argemone

C. Brassica

D. Citrus

**Answer: A**



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9. Radial symmetry is found in the flowers of

A. Brassica

B. Trifolium

C. Pisum

D. Cassia

**Answer: A**



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10. Many plants among Indigofera, Sesbania, Salvia, Allium, Aloe, mustard, groundnut, radish, gram and turnip have stamens with different in their flowers

A. Three

B. Four

C. Five

D. Six

**Answer: B**



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11. The term 'polyadelphous' is related to

A. gynoecium

B. androecium

C. corolla

D. calyx

**Answer: B**



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**12. Flowers are unisexual in**

A. pea

B. cucumber

C. China rose

D. onion

**Answer: B**



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**13.** Roots play insignificant role in absorption of water in

A. sunflower

B. pistia

C. pea

D. wheat

**Answer: B**



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14. Axile placentation is present in

A. Dianthus

B. lemon

C. pea

D. Argemone

**Answer: B**



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15. Among china rose, mustard, Brinjal, potato, guava, cucumber onion and tulip, how many plants have superior ovary

A. Five

B. Six

C. Three

D. Four

**Answer: B**



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**16.** Placenta and pericarp are both edible portions in

A. apple

B. banana

C. tomato

D. potato

**Answer: C**



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17. When the margins of sepals or petals overlap one another without any particular direction, the condition is termed as

A. vexillary

B. imbricate

C. twisted

D. valvate

**Answer: B**



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**18.** Which of the following statements is

- A. The seed in grasses is not endospermic
- B. Mango is a parthenocarpic fruit
- C. A proteinaceous aleurone layer is present in maize grain
- D. A sterile pistil is called a staminode

**Answer: C**



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**19.** An example of edible underground stem is

A. carrot

B. groundnut

C. sweet potato

D. potato

**Answer: D**



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**20.** Aggregate fruit develops from

- A. multicarpellary syncarpous gynoecium
- B. multicarpellary apocarpus gynoecium
- C. complete inflorescence
- D. multicarpellary suprior ovary

**Answer: B**



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**21. Non-albuminous seed is produced in**

- A. maize

B. castor

C. wheat

D. pea

**Answer: D**



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22. Among bitter gourd. Mustard, brinjal, pumpkin, chinarose, lupin, cucumber, sunnehemp, gram, guava, bean, chilli, plum, petunia, tomato, rose, withania, potato,

onion, aloe and tulip how many plants have hypogynous flower

A. Six

B. ten

C. Fifteen

D. Eighteen

**Answer: C**



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**23.** In china rose the flowers are

A. actinomorphic, hypogynous with twisted aestivation

B. actinomorphic, epigynous with valvate aestivation

C. zygomorphic, hypogynous with imbricate aestivation

D. zygomorphic, epigynous with twisted aestivation

**Answer: A**



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**24. Seed coat is not thin, membranous in**

A. maize

B. coconut

C. groundnut

D. gram

**Answer: B**



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**25.** Perisperm differs from endosperm in

- A. being a haploid tissue
- B. having no reserve food
- C. being a diploid tissue
- D. its formation by fusion of secondary nucleus with several sperms

**Answer: B**



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**26.** Placentation in tomato and lemon is

- A. parietal
- B. free central
- C. marginal
- D. axile

**Answer: D**



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27. Cymose inflorescence is present in

A. Solanum

B. Sesbania

C. Trifolium

D. Brassica

**Answer: D**



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**28.** The gynoecium consists of many free pistils in flowers of

A. Aloe

B. tomato

C. Papaver

D. Michelia

**Answer: D**



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29. Which one following is correctiy.

A. Onion - Bulb

B. Ginger - Sucker

C. Chlamydomonas - Sucker

D. Yeast - Zoospores

**Answer: A**



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**30.** How many plants in the list given below have composite fruits that develop from an inflorescence. Walnut, poppy, radish, fig, pineapple, apple, totato, mulberry.

A. Four

B. Five

C. Two

D. Three

**Answer: D**



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**31.** The coconut water and the edible part of coconut are equivalent to or the morphological nature of the edible part of coconut is

A. endosperm

B. endocarp

C. mesocarp

D. embryo

**Answer: A**



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**32.** Vexillart aestivation is characteristic of the family

A. Fabaceae

B. Asteraceae

C. Solanaceae

D. Brassicaceae

**Answer: A**



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**33. Phyllode is found in**

A. Asparagus

B. euphorbia

C. Australian Acacia

D. Opuntia

**Answer: C**



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**34.** Which one of the following statements is correct ?

- A. Seeds of orchids have oil-rich endospem
- B. Placentation in primrose basal
- C. Flower of tulip is a modified shoot
- D. In tomato, fruit is a capsule

**Answer: C**



**35.** The 'Eyes' of the potato tuber are :-

- A. flower buds
- B. shoot buds
- C. axillary buds
- D. root buds

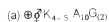
**Answer: C**



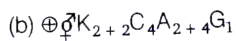
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36. The floral formula of solanaceae (Chilli) is

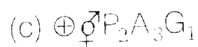
A.



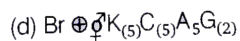
B.



C.



D.



**Answer: A**



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**37. Flowers are Zygomorphic in**

A. gulmohur

B. tomato

C. datura

D. mustard

**Answer: A**



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**38.** A drupe develops in

A. wheat

B. pea

C. tomato

D. mango

**Answer: D**



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**39.** The ovary is half inferior in flowers of

A. cucumber

B. cotton

C. guava

D. peach

**Answer: D**



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**40.** Keel is characteristic of the flower of

A. gulmohur

B. Cassia

C. Calotropis

D. bean

**Answer: D**



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**41.** In unilocular ovary with a single ovule the placentation is

- A. marginal
- B. basal
- C. free central
- D. axile

**Answer: B**



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42. The technical term used for the androecium in a flower of China rose (*Hibicus rosa-sinensis*) is

A. monadelphous

B. diadelphous

C. polyandrous

D. polyadelphous

**Answer: A**



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**43.** Vegetative propagation in mint occurs by

A. runner

B. offset

C. rhizome

D. sucker

**Answer: D**



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**44.** Cotyledons and testa respectively are edible parts in

A. groundnut and pomegranate

B. walnut and tamarind

C. french bean and coconut

D. cashew nut and litchi

**Answer: A**



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**45.** An example of axile placentation is

A. Argemone

B. Dianthus

C. lemon

D. marigold

**Answer: C**



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**46.** A fruit developed from hypanthodium inflorescence is called

A. hesperidium

B. sorosis

C. syconus

D. caryopsis

**Answer: C**



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47. An example of a seed with endosperm  
perisperm and caruncle is

Or

Which one of the following is an endosperm  
seed

Or

In which of the following plants, cotyledons  
form the first pair of leaves.

A. cotton

B. coffee

C. lily

D. caster

**Answer: D**



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**48.** The fruit is chambered, developed from inferior ovary and has seeds with succulent testa in

A. pomegranate

B. orange

C. guava

D. cucumber

**Answer: A**



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**49.** The fleshy receptacle of syconus of fig encloses a number of

A. achenes

B. samaras

C. berries

D. mericarps

**Answer: A**



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**50.** Dry indehiscent single-seeded fruit formed from bicarpellary syncarpous inferior ovary is

A. caryopsis

B. cypsela

C. berry

D. cremocarp

**Answer: B**



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**51.** What type of placentation of seen in sweet pea

A. Axile

B. free central

C. marginal

D. Basal

**Answer: C**



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**52. Pineapple (ananas) fruit develops from**

A. a multipistillate synacrpous flower

B. a cluster of compacity borne flowers on  
a common axis

C. a multilocular monocarellary flower

D. a uncilocular polycarpellary flower

**Answer: B**



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**53.** In a cereal grain the single cotyledon of embryo is represented by

A. scellum

B. prophyll

C. coleoptie

D. coleorihza

**Answer: A**



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**54.** Hair present on the cob of corn are

Or

Long filamentous threads protruding at the end of young cob of maize are

A. styles

B. ovaries

C. hairs

D. anther

**Answer: A**



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**55.** juicy hair-like structures observed in the lemon fruit develop from

A. mesocarp and endocarp

B. exocard

C. mesocarp

D. endocard

**Answer: D**



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**56.** Which of the following is a correct pair?

A. Cuscuta - Parasite

B. Dischidia - insectivorous

C. Opuntia - predator

D. Capsella - Hydrophyte

**Answer: A**



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**57. Edible part of mango is**

A. mesocarp

B. epicarp

C. endocarp

D. epidermis

**Answer: A**



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**58.** Geocarpic fruit is

A. potato

B. groundnut

C. onion

D. garlic

**Answer: B**



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**59. Bicarpellary gynoecium and oblique ovary occurs in**

A. mustard

B. banana

C. Pisum

D. brinjal

**Answer: D**



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**60.** Roots of which plants contains an oxidising agent?

A. Carrot

B. Soyabean

C. Mustard

D. Radish

**Answer: B**



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**61. Which is correct pair for edible part ?**

A. Tomato - Thalamus

B. Maize - Cotyledons

C. Guava - Mesocarp

D. Date palm - Pericarp

**Answer: D**



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**62. Edible part of banana is**

A. epicarp

B. mesocarp and less development

endocard

C. endocarp and less development

mesocarp

D. epicarp and mesocarp

**Answer: B**



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**63.** Match the following and indicate which is correct ?

A. Cucurbitaceae - Orange

B. Malvaceae - Cotton

C. Brassicaceae - Wheat

## D. Leguminosae - Sunflower

**Answer: B**



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**64.** Edible part in litch is

A. mesocarp

B. fleshy aril

C. endosperm

D. pericarp

**Answer: B**



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**65.** The type of placentation in which ovary is syncarpous unilocular and ovules on sutures is called

- A. apical placentation
- B. parietal placentation
- C. marginal placentation
- D. superficial placentation

**Answer: B**



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**66.** Angiosperm to which the largest flower belong is

- A. total stem parasite
- B. partial stem parasite
- C. total root parasite
- D. partial root parasite

**Answer: C**



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**67.** Clinging roots occure in

A. Trapa

B. orchid

C. screw pine

D. podostemon

**Answer: B**



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**68.** Floral features are chiefly used in angiosperms identification because

- A. flowers are of various colours
- B. flowers can be safely pressed
- C. reproductive parts are more stable and conservative than vegetative parts
- D. flowers are nice to work with

**Answer: C**



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**69.** The embryo in sunflower has

- A. one cotyledon
- B. two cotyledons
- C. many cotyledons
- D. no cotyledon

**Answer: B**



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70. Which of the following will lose its economic value, if its fruits are produced by induced parthenocarpy?

A. Grape

B. Pomegranate

C. Banana

D. Orange

**Answer: B**



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71. Heterospory and seed habit are often discussed in relation to a structure called .

A. spathe

B. bract

C. petiole

D. ligule

**Answer: D**



72. Which of the following is a true fruit ?

A. Apple

B. Pear

C. Cashewnut

D. Coconut

**Answer: D**



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**73.** Which part of the cocount produces coir ?

A. Speed coat

B. Mesocarp

C. Epicarp

D. pericarp

**Answer: B**



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74. Buttress roots are found in

A. Sorghum

B. Banyan

C. Terminalia

D. Pandanus

**Answer: C**



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**75.** Tetradynamous stamens are found in

A. Malvaceae

B. Solanaceae

C. Cruciferae

D. Liliaceae

**Answer: C**



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76. A perennial plant differs from biennial in

- A. having underground perennating structure
- B. having asexual reproductive structures
- C. being tree species
- D. not dying after seasonal production of flower

**Answer: D**



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77. Hypanthodium is a specialized type of

A. thalamus

B. fruit

C. inflorescence

D. ovary

**Answer: C**



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**78.** Plants having column of vascular tissues.

A. monocot

B. dicot

C. gymnosperm or dicot

D. gymnosperm or monocot

**Answer: B**



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**79.** Pulses are obtained from

A. Fabaceae

B. Asteraceae

C. Poaceae

D. Solanaceae

**Answer: A**



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**80. Vivipary is**

A. speed germination with subterranean cotyledons

B. seed germination with epiterranean cotyledons

C. fruit development without pollination

D. seed germination inside the fruit while attached to the plant

**Answer: D**



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**81.** Epitpalous and syngenesious stamens occur in

A. Solanceae

B. Brassicaeae

C. Fabaceae

D. Asteraceae

**Answer: D**



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**82.** Botanical name of Cauliflower is

- A. *Brassica oleracea* var. capitata
- B. *Brassica campestris*
- C. *Brassica oleracea* var. botrytis
- D. *Brassica oleracea* var. gemmifera

**Answer: C**



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**83.** Velamen is found in

A. roots of screwpine

B. aerial and terrestrial roots of orchids

C. leaves of Ficus elastic

D. aerial roots of orchids

**Answer: D**



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**84.** Vegetative reproduction of Agave occurs through

A. rhizome

B. stolon

C. bulbils

D. sucker

**Answer: C**



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**85.** New Banana plants develop from

A. rhizome

B. sucker

C. stolon

D. seed

**Answer: B**



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**86.** Oil reservoir of Groundnut is present in

A. embryo

B. cotyledons

C. endosperm

D. underground

**Answer: B**



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**87.** A family delimited by type of inflorescence  
is

Or

A family belongs to inferace and gamopetalae

A. Fabaceae

B. Asteraceae

C. Solanaceae

D. Liliaceae

**Answer: B**



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**88.** Vivipary is characteristics of

A. mesophytes

B. xerophytes

C. hygrophytes

D. halophytes

**Answer: D**



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**89.** Floral formula of tomato/tobacco is

A.  $(a) \oplus \overset{3}{\underset{+}{\sigma}} K_{4-5} A_{10} G_{(2)}$

B.  $(b) \oplus \overset{3}{\underset{+}{\sigma}} K_{2+2} C_4 A_{2+4} G_1$

C.  $(c) \oplus \phi^7 P_2 A_3 G_1$

D.  $(d) Br \oplus \phi^7 K_{(5)} C_{(5)} A_5 G_{(2)}$

**Answer: D**



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**90. Mango juice is got from**

A. epicarp

B. mesocarp

C. endocarp

D. pericarp and thalamus

**Answer: B**



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**91. Fruti if groundnut is**

A. legume

B. caryopsis

C. berry

D. nut

**Answer: A**



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