



# BIOLOGY

## BOOKS - DINESH PUBLICATION

### ENGLISH

#### INFLORESCENCE

#### Multiple Choice Questions

1. Arrangement of flowers on the floral axis is

A. inflorescence

B. phyllotaxy

C. placentation

D. corymb

**Answer: a**



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2. pedicellate bisexual flowers borne acropetally on an elongated peduncle form an inflorescence called

A. spike

B. corymb

C. raceme

D. catkin

**Answer: c**



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**3. The inflorescence of coriander is**

A. umbel

B. corymb

C. typical receme

D. umbel of umbels.

**Answer: d**



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4. in a compound umbel,each umbellule is subtended by

A. involurce

B. involucler

C. bract

D. bracteole

**Answer: b**



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**5. in candytuft, the inflorescence is**

A. typical raceme

B. corymb

C. corymbose raceme

D. umbel

**Answer: b**



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6. pedicellate flowers arising from a single point form

A. umbel

B. cymose head

C. capituulam

D. verticillaster

**Answer: a**



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7. The whorl of bracts present below the inflorescence of *Helianthus* (sunflower) is

A. epicalyx

B. spathe

C. involucl

D. involucre.

**Answer: d**



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**8.** inflorescence consisting of sessile bisexual flowers arranged acropetally on an elongated axis is

A. spadix



B. catkin

C. Raceme

D. spike

**Answer: d**



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9. An inflorescence appearing like a flower which is not racemose is

A. umbel

B. corymb

C. cyathium

D. capitulum

**Answer: c**



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**10.** in which of the following, the growing point ends in a flower

A. raceme

B. verticillaster

C. catkin

D. spike

**Answer: b**



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**11.** verticillaster has

A. a typical raceme

B. condensed dichasial cymes

C. condensed polychasial cymes

D. a mixed spadix

**Answer: d**



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**12. Both hypanthodium and cyathium possess**

A. unisexual flowers

B. bisexual sessile flowers

C. bisexual pedicellate flowers

D. sterile peduncle

**Answer: A**



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**13.** raceme inflorescence having branched peduncle is

A. panicle

B. corymb

C. cormbose-raceme

D. spikelet

**Answer: a**



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**14.** In a raceme, the flower arrangement is

A. basipetal

B. centripetal

C. centrifugal

D. acropetal

**Answer: d**



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**15.** the arrangement of flowers in sunflower  
(*Helianthus annuus*) is

A. acropetal

B. basipetal

C. centrifugal

D. centrifugal

**Answer: c**



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**16.** \_\_\_\_\_ inflorescence is a compact spike-like inflorescence with small unisexual flowers.

A. spike

B. spikelet

C. catkin

D. umbel



**Answer: c**



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**17. glumes occur in**

A. spike

B. spikelet

C. strobile

D. spadix

**Answer: b**



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18. multiparous cyme occurs in

A. jasminum

B. heliotropium

C. solanum nigrum

D. calotropis

**Answer: d**



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**19.** A scorpioid cyme having all the flowers in the same plane is

A. rhipidium

B. cincinnus

C. dreponium

D. bostryx

**Answer: a**



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20. In anthocephalus the inflorescence is

A. raceme

B. cymose head

C. racemose head

D. corymb

**Answer: b**



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21. which one of the following has compound umbel

A. coriandrum

B. androsace

C. centella

D. morus

**Answer: a**



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22. a branching system of the plant bearing flowers is

A. deliquescence

B. inflorescence

C. placentation

D. cauliflory

**Answer: b**



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23. a branching system of the plant bearing flowers is

A. deliquescence

B. inflorescence

C. placentation

D. morus

**Answer: b**



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24. name the infloescence in which the peduncle is extremely short and bears flowers of equal pedicel length

A. corymb

B. capitate

C. catkin

D. umbel

**Answer: d**



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25. spike occurs in

A. banana

B. mulberry

C. wheat

D. bottle brush

**Answer: d**



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26. The unit of inflorescence in grasses /  
graminea (poaceae) is

A. capitulum

B. spikelet

C. corymbose raceme

D. umbel

**Answer: b**



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27. In family compositae, the type of inflorescence is

A. capitulum

B. verticillaster

C. cyathium

D. hypanthodium

**Answer: a**



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**28.** Cyathium is characterized by

- A. A central female flower
- B. several peripheral male flowers
- C. an involucre of fused bracts
- D. all the above

**Answer: d**



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29. Which inflorescence has biparous cyme ending in uniparous cymes

A. cyathium

B. verticillaster

C. hypanthodium

D. strobile

**Answer: b**



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30. inflorescence is meant for

- A. bearing of flowers
- B. protection of delicate floral parts
- C. Ensuring cross pollination
- D. propre dispersal of seeds.

**Answer: c**



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31. involucre forms a cup around the inflorescence of

A. euphorbia

B. compositae

C. fig

D. cobra plant

**Answer: a**



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32. dichasial cyme occurs in

A. begonia

B. dianthus

C. calotropics

D. dorstenia

**Answer: b**



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**33.** Inflorescence which looks like solitary flower is

A. *brassica compertis*

B. *heloanthus annuus*

C. *hibiscus rosa-sinsensis*

D. *salvia officinalis*

**Answer: c**



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34. Inflorescence which looks like solitary flower is

A. yucca

B. pyrus

C. salvia

D. ficus

**Answer: d**



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**35.** In mulberry, the inflorescence is

A. spadix

B. catkin

C. spike

D. capitulum

**Answer: b**



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**36.** The inflorescence of mimosa is

A. globose head

B. racemose head

C. corymb

D. umbel

**Answer: a**



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37. the type of inflorescence in hamelia is

A. capitulum

B. scorpioid cyme

C. dichasial cyme

D. polychasial cyme

**Answer: d**



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38. A flask-shaped fleshy receptacle enclosing both the types of flowers is present in

A. cyathium

B. hypanthodium

C. coenanthium

D. spadix

**Answer: b**



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39. in banana, the inflorescence is

A. thyrsus

B. spadix

C. mixed spadix

D. cyme of capitula

**Answer: c**



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40. the female inflorescence of maize is

A. spadix

B. spike

C. catkin

D. corymb

**Answer: a**



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**41.** The production of flowers on old stem from dormant buds is



A. coenanthium

B. cauliflory

C. solitary flowers

D. hypanthodium

**Answer: b**



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**42.** In a corymb, all the flowers

A. arise from the same spot

B. are covered by a sheath

C. are brought to the same level

D. are sessile

**Answer: c**



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**43.** which ones are related

A. dichasium and hypanthodium

B. verticillaster and spike

C. hypanthodium and catkin

D. umbel and corymb

**Answer: d**



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**44.** An inflorescence having sessile flowers, a flattened receptacle and an involucre of bracts is

A. capitulum

B. hypanthodium

C. umbel

D. spikelet

**Answer: a**



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**45.** inflorescence with unbranched axis is called

A. compound raceme

B. compound corymb

C. simple raceme

D. verticillaster

**Answer: c**



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**46.** corymb has

A. long peduncle

B. shorter peduncle

C. no peducle

D. flattened peduncle

**Answer: b**



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**47.** spike has

A. pedicellate flowers

B. complete flowers

C. sessile flowers

D. unisexual flowers

**Answer: C**



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**48.** the inflorescence of *brassica campestris* is

A. raceme

B. corymb

C. corymbose raceme

D. spadix

**Answer: c**



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**49.** Simple umbel has flower arrangement called

A. acropetal

B. centripetal

C. irregular

D. basipetal



**Answer: b**



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50. capitulum with two types of florets is called

- A. homogamous
- B. isogamous
- C. heterogamous
- D. anisogamous

**Answer: c**



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**51. in helicoid cyme , the lateral flowers arise**

- A. on the same side
- B. on alternate sides
- C. in all the directions
- D. from a common point

**Answer: a**



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52. rhipidium inflorescence is found in

A. petunia

B. drosera

C. salanum nigrum

D. jasminum

**Answer: c**



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53. Capitulum has one or more whorls of called

A. involucl

B. involucre

C. epicalyx

D. cyathium,

**Answer: b**



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54. Flower arrangement in racemose head is

A. centripetal

B. basipetal

C. acropetal

D. irregular

**Answer: b**



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55. in a cymose inflorescence, the peduncle ends in

A. a single flower

B. two flowers

C. many flowers

D. an appendage

**Answer: a**



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56. cauliflory is

A. production of new plants from cauline buds

B. formation of flowers from old stem

C. development of flowers on young branches

D. clustering of flowers.

**Answer: b**



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57. Cyathium is a type of

A. flower

B. fruit

C. inflorescence

D. phyllotaxy

**Answer: C**



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58. in cyathium , the ratio between female to male flowers is

A. one : one

B. one : many

C. many: one

D. many : many

**Answer: B**



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59. The flowers in the raceme/racemose are arranged

A. acropetally

B. basipetally

C. centripetally

D. centrifugally

**Answer: a**



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60. the inflorescence of grass/sedge/rice/family  
gramineae is

A. spike

B. thyrsus

C. spikelet

D. raceme

**Answer: c**



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61. axis of the inflorescence is called

A. peduncle

B. thalamus

C. petiole

D. pedical

**Answer: a**



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62. The inflorescence supporting stem is called

A. peduncle

B. thalamus

C. helicoid cyme

D. verticillaster

**Answer: a**



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**63.** In cymose inflorescence

A. centripetal

B. centripetal

C. basipetal

D. acropetal

**Answer: a**



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**64.** inflorescence in which flowers developing from different places of the peduncle reach the same level, is

A. corymb

B. corymbose-raceme

C. capitulum

D. umbel

**Answer: d**



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**65.** An inflorescence having sessile flowers, a flattened receptacle and an involucre of bracts is

A. umbel

B. head/capitulum

C. corymb

D. raceme

**Answer: b**



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**66.** A biparous cyme ending in uniparous cyme constitutes



A. verticillaster

B. panicle

C. thyrsus

D. paniculate cyme

**Answer: a**



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**67.** The type of inflorescence which is not racemose but resembles a single flower is called :

A. capitulum

B. cymose

C. spadix

D. polychasial cyme

**Answer: b**



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**68.** The most advanced type of inflorescence is

A. corymb

B. capitulum

C. spadix

D. polychasial cyme

**Answer: b**



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**69.** cyathium and hypanthodim types of inflorescence are similar in having

A. nectar glands

B. apical pore

C. petaloid bracts

D. unisexual flowers

**Answer: d**



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**70.** a number of sessile flowers grow on a suppressed penduncle forming a globose inflorescence called

A. catkin

B. corymb

C. umbel

D. capitate

**Answer: d**



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**71. Inflorescence of family compositae is**

A. capitulum

B. spadix

C. umbel

D. catkin

**Answer: a**



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**72. Spadix is the inflorescence of**

A. mulberry

B. banana

C. coriander

D. delonix

**Answer: b**



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**73. Hypanthodium is**

A. thalamus

B. fruit

C. inflorescence

D. ovary

**Answer: c**



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**74. hypanthodium inflorescence is found in**

A. coriander

B. sunflower

C. cauliflower

D. fig



**Answer: d**



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**75.** Which of the following is not an edible inflorescence ?

A. raphanus sativus

B. brassica aleracea

C. brassica rapa

D. mustard

**Answer: b**



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**76. umbel inflorescence occurs in**

A. coriandrum

B. colocasia

C. musa

D. sunflower

**Answer: a**



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77. number of female flowers in a cyathium is

A. 1

B. 2

C. 3

D. several

**Answer: a**



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78. which type of inflorescence occurs in ficus

A. verticillaster

B. hypanthodium

C. cymose

D. raceme

**Answer: b**



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79. spike with unisexual flowers/catkin occurs  
in

A. mulberry

B. grass

C. wheat

D. callistemon

**Answer: a**



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80. The edible part of cauliflower is the :

A. bud

B. bract

C. inflorescence

D. leaves

**Answer: c**



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81. inflorescence is collection of

A. petals

B. stamens

C. flowers

D. carpels

**Answer: c**



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**82. what is wrong?**

A. head inflorescence is found in sunflower

B. *Cyanthium* is inflorescence of Labiatae

C. *Smilax* has stipular tendrils

D. *Rafflesia* is total parasite

**Answer: b**



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**83.** Capitulum inflorescence is characteristic feature of the family

A. Malvaceae



B. papilionaceae

C. liliaceae

D. compositae

**Answer: d**



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**84.** inflorescence in which flowers developing from different places of the peduncle reach the same level, is

A. catkin

B. corymb

C. umbel

D. raceme

**Answer: b**



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**85.** in catkin, the flowers are

A. unisexual and sessile

B. bisexual and sessile

C. unisexual and pedicellate

D. bisexual and pedicellate.

**Answer: a**



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**86.** an inflorescence having a number of achlamydeous male flowers surrounding a single achlamydeous female flower is

A. verticillaster

B. cyanthium

C. spadix

D. hypanthodium

**Answer: b**



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**87.** rhipidium inflorescence of solanum nigrum

is

A. modified scorpioid cyme

B. helicoid cyme

C. capitulum

D. multiparous cyme

**Answer: a**



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**88.** whorl of small green structures present around sunflower is

A. epicalyx

B. calyx

C. leaves

D. involucre.

**Answer: d**



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**89. inflorescence of jower is**

A. spike of spikelets

B. panicle of spikelets

C. capitulum

D. verticillaster

**Answer: b**



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**90.** in cyathium , the ratio between female to male flowers is

A. hypanthodium

B. cyathium

C. catkin

D. verticillaster

**Answer: b**



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**91.** verticillaster inflorescence occurs in

A. lamiaceae/labiatae

B. brassicaceae/cruciferae



C. compositae/asteraceae

D. solanceae

**Answer: a**



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**92. All the florets are disc florets in**

A. launea

B. vernonia

C. sunflower

D. tridax

**Answer: b**



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**93.** In florescence with unisexual sessile flower  
is

A. spike

B. spikelet

C. catkin

D. spadix

**Answer: c**



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**94.** inflorescence of sunflower is

A. umbel

B. cyathium

C. hypanthidium

D. capitulum

**Answer: d**



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**95. what is true ?**

A. umbel is racemose inflorescence where stalked flowers aggregate on a flat receptacle

B. in raceme the main axis is shortened and flowers are borne acropetally

C. spadix is a racemose inflorescence

having sessile flowers

D. spike is a racemose inflorescence having

sessile flowers.

**Answer: d**



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**96.** select the correct combination of

inflorescences

- A. simple raceme, corymb , umbel simple  
cyme
- B. simple raceme, spadix , spike ,, catkin
- C. cyathium , verticillaster , hypanthodium ,  
catkin
- D. capitulum, globose head, vertcillaster,  
catkin.

**Answer: b**



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97. Raceme inflorescence occurs in

A. Curcubita

B. Delonix

C. Euphorbia

D. Begonia

**Answer: b**



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98. which is nearest to corymb

A. umbel

B. capitulum

C. cyathium

D. hypanthodium

**Answer: a**



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99. Elongated peduncle bearing pedicellate flowers continuously acropetal order is

A. corymb

B. umbel

C. raceme

D. head

**Answer: c**



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**100.** Which is not a correct match

- A. catkin - mulberry
- B. capitulum-sunflower
- C. corymb-candytuft
- D. raceme-wheat

**Answer: d**



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**101.** capitulum inflorescence occurs is

A. salvia

B. euphorbia

C. marigold

D. jasminum

**Answer: c**



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**102.** compare the columns and find out the correct combination

**Column I**

- (a) Gall flowers
- (b) Involucre
- (c) Spathe
- (d) Lemma

**Column II**

- (i) Spikelet
- (ii) Hypanthodium
- (iii) Cyathium
- (iv) Umbel
- (v) Spadix

A. a - ii, b-iv, c-v,d-iii

B. a-ii,b-iii,c-v,d-i

C. a-iii,b-iv, c-ii,d-v

D. a-iii,b-iv,c-ii,d-i

**Answer: b**



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**103.** State: Two functions of histones in DNA packaging.



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**104.** find out the correct sequece in the labelling of diargram



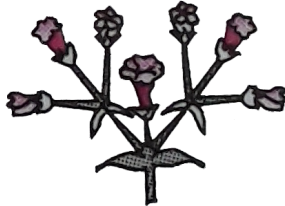
a



b



c



d

A. a- spike , b-raceme,c-dichasial cyme, d-  
monochasial cyme

B. a - spike , b-dichasial cyme, c-  
monochasial cyme, d-dichasial cyme

C. a-raceme, b-spike , c-monochasial cyme,  
d-dichasial cyme

D. a-dichasial cyme,b-monochasial cyme,c-  
raceme,d-spike

**Answer: c**



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**105.** spadix inflorescence is characteristic  
feature of

A. colocaisa

B. palm

C. banana

D. all the above

**Answer: d**



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**106. Scopioid cyme occurs in**

A. hamelia



B. nerium

C. heliotropium

D. clerodendron

**Answer: c**



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**107.** captulum inflorescence does not occur in

A. Dahlia

B. sunflower

C. marigold

D. china rose

**Answer: d**



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**108.** study the following table and find the correct pair

A. false whorl-like inflorescence - many

sessile bisexual flowers-leonotis

B. single flower-like inflorescence, -many  
stalked staminate and pistillate flowers-  
poinsettia

C. fruit-like inflorescence-many  
sessile, staminate flowers on  
top, pistillate flowers at base and sterile  
flowers in between-ficus

D. fleshy axis of inflorescence-many stalked,  
staminate flowers at base , pistillate

flowers on top and sterile flowers in  
between -colocasia.

**Answer: c**



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**109.** find the correct match

**Column I**

**Column II**

- |                    |                           |
|--------------------|---------------------------|
| (a) Gall flowers   | (i) <i>Theobroma</i>      |
| (b) Sympoidal axis | (ii) <i>Bougainvillea</i> |
| (c) Achlamydeous   | (iii) <i>Ficus</i>        |
| (d) Cauliflory     | (iv) <i>Euphorbia</i>     |
|                    | (v) <i>Hamelia</i>        |

A. a-3,b-5,c-1,d-2

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

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

D. a-3,b-5,c-4,d-1

**Answer: d**



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**110.** in an inflorescence two types of centripetally arranged sessile flowers with hair-like sepals occurs. which one is not

associated with them

(a) nectar glands at base of corolla

(b) axile placentation

© superior ovary

(d) scaly bracts.

A. b and c

B. c and d

C. a and b

D. a and b

**Answer: a**



111. Verticillaster inflorescence is the characteristic of family

A. cotton

B. datura

C. leucas

D. ocimum

**Answer: d**



112. what the inflorescence is found in the diagram





A. cyathium

B. dichasial cyme

C. umbel

D. panicle

**Answer: a**



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**113.** A student observed 34 inflorescences in Bougainvillea and 42 inflorescences in Poinsettia. Find out the number of flowers in

Bougainvillea and the number of female flower  
in Poinsettia, respectively

A. 34,126

B. 204.164

C. 102,42

D. 68 indefinite.

**Answer: c**



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**114.** The inflorescence in cauliflower is

A. corymb

B. catkin

C. umbel

D. compound corymb

**Answer: d**



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**115.** Inflorescence of cauliflower is found in

A. solanum

B. sesbania

C. trifolium

D. braccsica

**Answer: a**



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**116.** Entry of pollen tube into the ovule through chalaza was first discovered by Treub in a xerophytes. This plant is associated with a pair of characters given below (i) unisexual flowers ( ii) sessile flowers (iii) centripetal arrangement of flowers (iv) bisexual flowers.

The correct pair is

A. ii and iii

B. iii and iv

C. ii and iv

D. I and ii

**Answer: d**



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**117.** the type of inflorescence in a plant showing polygamous condition and lateral style is

A. compound corymb

B. compound umbel

C. compound head

D. compound raceme

**Answer: a**



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**118.** Inflorescence is racemose in

A. tulip

B. aloe

C. soyabean

D. brinjal

**Answer: b**



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**119.** In a cymose inflorescence the main axis

A. bears a solitary flower

B. has unlimited growth but lateral  
branches end in flowers

C. terminates in a flower



D. has unlimited growth

**Answer: c**



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**120.** flower showing basipetal succession are observed in

A. caesalpinia and clerodendrum

B. jasmine and gulmohar

C. gulmohar and caesalpinia

D. celerodendrum and jasmine.

**Answer: d**



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**121.** the inflorescence in coconut plant is

A. compound spadix

B. hypanthodium

C. cyathium

D. vesticillaster.

**Answer: a**



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**122.** Identify the right combination

(a) carrot-tuberous root- head inflorescence

(b) onion-bulb-corymb

(c) colocasia-Rhizome-spadix

(d) bougainvillea-thorns-cymula

A. carrot-tuberous root- head inflorescence

B. onion-bulb-corymb

C. colocasia-Rhizome-spadix

D. bougainvillea-thorns-cymula.

**Answer: d**



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**123.** ratio between number of stamens in male flower and number of carpels in female flowers in Euphorbia is

A. 2: 1

B. 2:3

C. 1:1

D. 1:3

**Answer: d**



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**124.** match and find the correct option

I

II

- |                      |                     |
|----------------------|---------------------|
| (a) Solitary cyme    | (i) <i>Solanum</i>  |
| (b) Monochasial cyme | (ii) <i>Ipomoea</i> |
| (c) Cymule           | (iii) <i>Datura</i> |
| (d) Polychasial cyme | (iv) <i>Nerium</i>  |

- (A) a-i, b-iii, c-v, d-iv  
(B) a-iii, b-i, c-v, d-ii  
(C) a-iii, b-iv, c-v, d-ii  
(D) a-iii, b-i, c-iv, d-v.

**A. a-I,b-iii,c-v,d-iv**

**B. a-iii,b-I,c-v,d-ii**

**C. a-iii,b-iv,c-v,d-ii**

**D. a-iii,b-I,c-iv,d-v**

**Answer: d**



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**125.** This shows compound inflorescence

A. sunflower

B. zinnia

C. marigold

D. neem

**Answer: d**



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## Check Your Grasp

1. In *Callistemon*, the inflorescence is

- A. terminal
- B. intercalary
- C. axillary
- D. basal



**Answer:**



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2. artocarpus possesses

A. longest inflorescence

B. solitary flowers

C. cauliflory

D. scape.

**Answer:**



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3. the axis bearing flowers in a spikelet is called

A. rachilla

B. peduncle

C. receptacle

D. scape.

**Answer:**



4. Inflorescence of Hop/Humulus is

A. amentum

B. corymb

C. umbel

D. strobile

**Answer:**



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5. anthotaxy is

- A. arrangement of flowers
- B. arrangement of stamens
- C. branching of peduncle
- D. compaction of inflorescence.

**Answer:**



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6. longest inflorescence is that of

A. lily

B. cassia

C. callistemon

D. agave

**Answer:**



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7. in *Dorstenia* the inflorescence is

A. coenanthium

B. anthodium

C. spike of spikes

D. spikelet

**Answer:**



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8. in cauliflower, the inflorescence is

- A. umbel of umbels
- B. corymb of corymbs
- C. panicle
- D. thyrsus

**Answer:**



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9. inflorescence is thyse/thyrsus in

A. lantana

B. grape

C. jasminum

D. echinops

**Answer:**



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10. in verticillaster, an axillary group of flowers has an arrangement of

A. polychasium

B. dichasium

C. monochasium

D. dichasium followed by monochasium.

**Answer:**



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