



doubtnut

India's Number 1 Education App



BIOLOGY

BOOKS - DINESH PUBLICATION

ENGLISH

DIVERSITY IN ANGIOSPERM

MORPHOLOGY

Multiple Choice Questions

1. A shrub has

- (a) Short pliable stems
- (b) Long pliable stems
- (c) Medium woody stems
- (d) Long woody stems

A. Short pliable stems

B. Long pliable stems

C. Medium woody stems

D. Long woody stems

Answer: C



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2. The smallest angiosperm is

(a) Mistletoe

(b) Rafflesia

(c) Wolfiella

(d) Wolffia

A. Mistletoe

B. Rafflesia

C. Wolfiella

D. Wolffia

Answer: D



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3. Bodhi' tree at Gaya is

(a) 200 years old

(b) More than 2500 years old

(c) 1000-500 years old

(d) 200-1000 years old

A. 200 years old

B. More than 2500 years old

C. 1000-500 years old

D. 200-1000 years old

Answer: B



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4. The tallest plant is

(a) *Anthocephalus cadamba*

(b) *Acacia nilotica*

(c) *Eucalyptus regnans*

(d) *Rafflesia arnoldii*

A. *Anthocephalus cadamba*

B. *Acacia nilotica*

C. *Eucalyptus regnans*

D. *Rafflesia arnoldii*

Answer: C



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5. A herb is the one having

- (a) Green soft and short stems
- (b) Woody short stems
- (c) A number of flowers and fruits
- (d) Annual growth

A. Green soft and short stems

B. Woody short stems

C. A number of flowers and fruits

D. Annual growth

Answer: A



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6. Lianas are

- (a) Weak stemmed trailers
- (b) Weak stemmed climbers and twiners
- (c) Trees with twisted stems
- (d) Plants with woody stems and medium height.

A. Weak stemmed trailers

B. Weak stemmed climbers and twiners

C. Trees with twisted stems

D. Plants with woody stems and medium height.

Answer: B



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7. A space parasite is

A. Vanda

B. Cuscuta

C. Rafflesia

D. Utricularia

Answer: A



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8. An insectivorous/carnivorous plant is

A. Viscum

B. Parkinsonia

C. Santalum

D. Utricularia

Answer: D



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9. Herbaceous plant that dies back to ground each year but sprouts again from underground parts is

A. Perennial

B. Biennial

C. Annual

D. Winter annual

Answer: A



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10. Loranthus is

- (a) Commensal
- (b) Epiphyte
- (c) Parasite
- (d) Symbiont

A. Commensal

B. Epiphyte

C. Parasite

D. Sumbiont

Answer: C



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11. Monotropa is a

(a) Saprophyte

(b) Symbiont

(c) Parasite

(d) Insectivorous plant

A. Saprophyte

B. Symbiont

C. Parasite

D. Insectivorous plant

Answer: A



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12. Saprophytic angiosperms are also called

(a) Mycorrhizal plants

(b) Mesophytic plants

(c) Humus plants

(d) Myrmecophilous plants

A. Mycorrhizal plants

B. Mesophytic plants

C. Humus plants

D. Myrmecophilous plants

Answer: C



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13. Saprophytic plants lack

- (a) Chlorophyll
- (b) Vascular tissues
- (c) Roots
- (d) Flowers

A. Chlorophyll

B. Vascular tissues

C. Roots

D. Flowers

Answer: A



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14. Liana is a

A. herb

B. Shrub

C. Tree

D. Vine

Answer: D



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15. A symbiotic association between fungus and underground part of plant is

- A. Hyperparasite
- B. Mycorrhiza
- C. Endophyte
- D. Subterranean parasite

Answer: B



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16. Lantana is a

- A. Liana
- B. Tree
- C. Herb
- D. Prickly shrub

Answer: D



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17. Smallest parasitic flowering plant is

(a) Arceuthabium

(b) Rafflesia

(c) Balanophora

(d) Cistanche

A. Arceuthabium

B. Rafflesia

C. Balanophora

D. Cistanche

Answer: A



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18. Largest flower belongs to

- (a) An epiphyte Vanda
- (b) A parasite Rafflesia
- (c) A saprophyte Neottia
- (d) Tree Alnus with symbiotic bacteria

A. An epiphyte Vanda

B. A parasite Rafflesia

C. A saprophyte Neottia

D. Tree Alnus with symbiotic bacteria

Answer: B



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19. Sundew is

- (a) Dionaea
- (b) Nepenthes
- (c) Drosera
- (d) Striga

A. Dionaea

B. *Nepenthes*

C. *Drosera*

D. *Striga*

Answer: C



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20. A polycarpic plant is

A. *Bambusa tulda*

B. *Agave americana*

C. *Pisum sativum*

D. *Pyrus malus*

Answer: D



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21. A plant which manufactures its own food is

A. Autotrophic

B. Symbiotic

C. Heterotrophic

D. Saprophytic

Answer: A



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22. Which one of the following is a partial heterotroph

A. Rafflesia

B. Eucalyptus

C. Drosera

D. Hydrilla

Answer: C



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23. A marine angiosperm is

A. hydrilla

B. Potamogeton

C. Zostera

D. Sagittaria

Answer: C



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24. A monocarpic plant is

(a) Cuscuta

(b) Agave

(c) Mangifera

(d) Dalbergia

A. Cuscuta

B. Agave

C. Mangifera

D. Dalbergia

Answer: B



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25. Santalum album is a

- (a) Total stem parasite
- (b) Total root parasite
- (c) Partial stem parasite
- (d) Partial root parasite

- A. Total stem parasite
- B. Total root parasite
- C. Partial stem parasite
- D. Partial root parasite

Answer: D



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- 26.** A partial parasite is the one which
- (a) Absorbs water and mineral salts from host
 - (b) Absorbs only water from host

(c) Takes food from host only occasionally

(d) Lives on the host for space only

A. Absorbs water and mineral salts from

host

B. Absorbs only water from host

C. Takes food from host only occasionally

D. Lives on the host for space only

Answer: A



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27. What is common to Nepenthes, Utricularia and Drosera with regard to mode of nutrition ?

- A. Saprophytes
- B. Heterotrophs
- C. Autotrophs
- D. Carnivorous

Answer: D



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28. A root parasite is

A. Loranthus

B. Rafflesia

C. Viscum

D. Cuscuta

Answer: B



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29. Loranthus is

(a) Commensal

(b) Epiphyte

(c) Parasite

(d) Symbiont

A. Parasitism

B. Commensalism

C. Symbiosis

D. Saprophytism

Answer: A



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30. Insectivorous plants grow in areas deficient in

A. Phosphorus

B. Nitrogen

C. Sulphur

D. Iron

Answer: B

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31. Woody twiners are

A. Stragglers

B. Creepers

C. Lianes

D. Scandent

Answer: C



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32. A plant has weak stem which can coil around an upright support . It is a

- (a) Liana
- (b) Twiner
- (c) Climber
- (d) Creeper

A. Liana

B. Twiner

C. Climber

D. Creeper

Answer: B



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33. A plant lives for less than one years. It is

- (a) Annual
- (b) Biennial
- (c) Semi-annual
- (d) Perennial

A. Annual

B. Biennial

C. Semi-annual

D. Perennial

Answer: A



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34. Study of seeds is a part of

A. Pomology

B. Morphology

C. Vegetative morphology

D. Reproductive morphology

Answer: D



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35. Organs similar in function but different in internal structure are

A. Vegetative organs

B. Reproductive organs

C. Homologous organs

D. Analogous organs

Answer: D



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36. Which plant is found in mangrove zone ?

A. Potamogeton

B. Sagittaria

C. Rhizophora

D. Populus

Answer: C



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37. A plant which does not have roots is

A. *Utricularia*

B. *nelumbo*

C. *Trapa*

D. *Aviecennia*

Answer: A



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38. Timber line is a limit above which

- (a) Trees are found
- (b) Trees are absent
- (c) Plants do not survive
- (d) Plants occur in abundance

A. Trees are found

B. Trees are absent

C. Plants do not survive

D. Plants occur in abundance

Answer: B



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39. Which one has prickles

- (a) Lantana camara
- (b) Argemone mexicana
- (c) Solanum surattense
- (d) All the above

A. Lantana camara

B. *Argemone mexicana*

C. *Solanum surathense*

D. All the above

Answer: D



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40. Which one of the following is a succulent

(a) *Agermone mexicana*

(b) *Dalbergia sisso*

(c) Opuntia

(d) Mangifera

A. Agermone mexicana

B. Dalbergia sisso

C. Opuntia

D. Mangifera

Answer: C



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41. Date Palm is

- A. Caudex
- B. Excurrent
- C. Deliquescent
- D. Culm

Answer: A



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42. Deliquescent habit is shown by

- A. *Pinus*
- B. *Eucalyptus*
- C. *Cocos nucifera*
- D. *Mangifera indica*

Answer: D



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43. Quisqualis (Rangoon Creeper) is an example of

A. Climber

B. Twiner

C. Trailer

D. Liana

Answer: B



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44. Myrmecophily belongs to the category of

- A. Symbiosis
- B. Epiphytism
- C. Parasitism
- D. Saprophytism

Answer: A



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45. Myrmecophily is an association between a higher plant and

A. Bacteria

B. Fungi

C. Blue-green algae

D. Ants

Answer: D



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46. VAM is

A. Mycorrhiza

B. Succulent

C. Epiphyte

D. Mesophyte

Answer: A



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47. A partial parasite is

- (a) Cuscuta
- (b) Cassytha
- (c) Arceuthobium
- (d) Viscum

A. Cuscuta

B. Cassytha

C. Arceuthobium

D. Viscum

Answer: D



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48. *Pisum sativum* is a

(a) Climber

(b) Tree

(c) Shrub

(d) Heterotroph

A. Climber

B. Tree

C. Shrub

D. Heterotroph

Answer: A



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Revision Question From Competitive Exams

1. A plant expected to have an age of 1500 years is

A. Eucalyptus

B. Sequoia

C. Mangifera indica

D. Dalbergia sisso

Answer: B



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2. Santalum album/Sandal-wood Tree is

A. Partial root parasite

B. Partial stem parasite

C. Total stem parasite

D. Total root parasite

Answer: A



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3. Biggest flower belongs to a plant which is

A. partial stem parasite

B. partial root parasite

C. Total stem parasite

D. Total root parasite

Answer: D



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4. A plant growing on another plant without drawing any nourishment is

A. Ectoparasite

B. Epiphyte

C. Symbiont

D. Saprophyte

Answer: B



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5. A small rootless aquatic herb in which a portion of leaf forms a tiny sac or bladder which traps water insects is

A. Dionaea

B. Drosera

C. Utricularia

D. Nepenthes

Answer: C



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6. Cuscuta is a

A. Total root parasite

B. Total stem parasite

C. Partial stem parasite

D. Epiphyte

Answer: B



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7. Total root parasite is

A. Rafflesia

B. Cassytha

C. Viscum

D. Loranthus.

Answer: A



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8. insectivorous plants usually survive in
- A. Nitrogen/Nitrate
 - B. Water
 - C. Organic matter
 - D. Ca/Mg

Answer: A



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9. *Balanophora/Orobanche* is a

- A. Total root parasite
- B. partial root parasite
- C. Partial stem parasite
- D. Total stem parasite

Answer: A



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10. The tallest plant belongs to

- A. *Cedrus deodara*
- B. *Eucalyptus ragnans*
- C. *Sequoia sempervirens*
- D. *Pinus roxburghii*

Answer: B



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11. Smallest flowering plant/flower is

A. Polyalthia

B. Rafflesia

C. Azadirachta

D. Walfnia

Answer: D



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12. Which of the following is insectivorous

- A. hydrilla
- B. Ricinus
- C. Drosera
- D. Ranunculus

Answer: C



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13. One of the following is a saprophyte

- A. Monotropa/Neottia
- B. Utricularia
- C. Dionaea
- D. Nepenthes

Answer: A



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14. Anatomically and structurally different but functionally similar structures are called

A. Analogous

B. Homologous

C. Divergent

D. Convergent

Answer: A



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15. Epiphytes depend upon other plants for

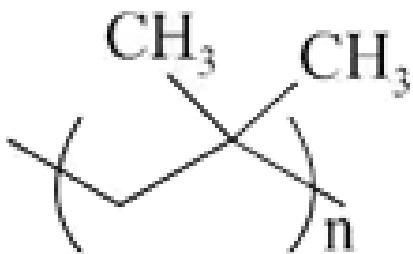
- A. Water only
- B. Water and minerals only
- C. Support only
- D. All type of nourishment

Answer: C



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16. The correct name of the following polymer is :



A. Aldrovanda

B. Dionaea

C. Utricularia

D. Nepenthes

Answer: B



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17. Of the following which is the smallest parasite?

A. Arceuthabium

B. Wolffia

C. Cassytha

D. Rafflesia

Answer: A



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18. Insects captured by carnivorous plants partially meet their requirement of

A. Organic matter

B. Enzymes

C. Water

D. Nitrogen

Answer: D



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19. Which of the following is a partial root para- site

A. *Balanopora*

B. *Santalum*

C. *Viscum*

D. *Cuscuta*

Answer: B



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20. Which one of the following is a partial stem parasite

A. *Balanopora/Orabanche*

B. *Viscum*

C. *Cassytha*

D. *Drosera*

Answer: A



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21. Insectivorous plant with rosetta of spiny margined bilobed hinged and winged leaves for catching the prey is

A. *Nepenthes*

B. *Drosera*

C. *Dionaea*

D. *Utricularia*

Answer: C



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22. Plants which flower only once are

- A. Pericarpic
- B. Monocarpic
- C. polycarpic
- D. Cleostocarpic

Answer: B



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23. 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 productive of flowers

Answer: D



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24. A plant living symbiotically inside another plant is

- A. Saprophyte
- B. Endophyte
- C. Semiparasite
- D. Parasite.

Answer: B



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25. A pot bears fruit, has a column of vascular tissue and a tap root system. This plant is a/an

A. Monocot

B. Dicot

C. Gymnosperm or dicot

D. Gymnosperm or monocot

Answer: B



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26. Fruit bearing plants are

- A. Gymnosperms
- B. Dicotyledons
- C. Angiosperms
- D. Spermatophytes

Answer: C



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27. Nepenthes is a

- A. Both producer and primary carnivore
- B. Producer
- C. Consumer
- D. None of the above

Answer: A



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28. Rhizophora is an example of

- A. Lithophyte
- B. Fresh water aquatic
- C. mesophyte
- D. Halophyte

Answer: D



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29. Rafflesia is a

- A. Total root parasite
- B. partial root parasite
- C. Total stem parasite
- D. Partial stem parasite

Answer: A



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30. Parasite plants obtain nourishment through

A. Roots

B. Haustoria

C. Thorns

D. Pores

Answer: B



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31. The relationship between enthalpy and internal energy change is

- A. Ornithophily
- B. Entomophily
- C. Myrmecophily
- D. Anemophily

Answer: C



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32. Give two examples of insectivorous plant.

- A. Dionaea
- B. Dischidium Monotropa
- C. Drosera
- D. Pinguicula

Answer: B



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33. Select the one, which is pitcher plant

- A. *Drosera*
- B. *Utricularia*
- C. *Sarracenia*
- D. *Aldrovanda*

Answer: C



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34. Plants that grow over the branches of trees without contact with soil are

- A. Epiphytes
- B. Symbionts
- C. Saprophytes
- D. Parasite.

Answer: A



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35. Which one is the largest root parasite ?

- A. Rafflesia
- B. Monotropa
- C. Arceuthobium
- D. All the above

Answer: A



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36. Pitcher plant is

A. herbivorous

B. Carnivorous

C. Saprotroph

D. All the above

Answer: B



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37. Monocot characteristics are

A. Fibrous root system , parallel-veined

leaves, trimerous flowers and two
cotyledons

B. Fibrous root system ,parallel -veined

leaves, trimerous flowers and one
cotyldeon

C. Fibrous root system , reticulate veined

leaves, trimerous flowers and one
cotyledon

D. Tap root system, parallel venation,
trimerous flowers and one cotyledon

Answer: B



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38. Which among the following is monocarpic?

A. Coconut

B. Apple

C. Bamboo/Agave

D. Mango

Answer: C



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39. A pair of insectivorous plants is

A. Drosera and Rafflesia

B. Nepenthes and Bladderwort

C. Dionaea and Viscum

D. Venus Fly Trap and Rafflesia

Answer: B



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40. An obligate stem parasite is

- A. Rafflesia
- B. Orobanche
- C. Cuscuta
- D. Monotropa

Answer: C



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41. *Dionaea muscipula* is

A. Venus Fly Trap

B. Butterwort

C. Water Fly Trap

D. Bladderwort

Answer: A



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42. Plants capable of growing in nitrogen deficient soil is

A. Orchids

B. Ferns

C. Insectivorous plants

D. Rafflesia

Answer: C



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43. An insectivorous plant is

- A. Opuntia
- B. Crotalaria
- C. Eichhornia
- D. Utricularia

Answer: D



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44. Which one of the following is a parasitic plant ?

- A. *Drosera*
- B. *Cuscuta*
- C. *Nepenthes*
- D. *Utricularia*

Answer: B



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45. National tree of India is

- A. *Mangifera indica*
- B. *Azadirachta indica*
- C. *Ficus bengalensis*
- D. *Ficus religiosa*

Answer: C



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46. Bird of Paradise flower is

A. *Ravenea madagascariensis*

B. *Sterilitzia reginae*

C. *Heliconia schiedeana*

D. *Musa chinensis*

Answer: B



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47. An insectivorous plant is

A. *Nepenthes*

B. *Sarracenia*

C. *Crotalaria*

D. Both A and B

Answer: D



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48. A monocarpic palm is

A. *Areca*

B. *Borassus*

C. Corypha

D. Calamus

Answer: C



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49. Cuscuta is

A. Saprophytic plant

B. Epiphytic plant

C. Mangrove

D. Parasitic plant.

Answer: D



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50. Insectivorous plants are

A. Saprophytes

B. Heterotrophs

C. Semiautotrophs

D. Autotrophs

Answer: C



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51. Which one is not correctly matched

- A. Mucor-Autoroph
- B. Orobanche-Root parasite
- C. Cuscuta-Stem parasite
- D. Drosera-Insectivore.

Answer: A



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52. A plant living for a few days is

- A. Annual
- B. Ephemeral
- C. Biennial
- D. Perennial

Answer: B



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53. Which one is a pitcher plant

A. Aristolochia

B. Utricularia

C. Drosera

D. Nepenthes

Answer: D



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54. Viscum is

- A. Total stem parasite
- B. Total root parasite
- C. Partial stem parasite
- D. Partial root parasite

Answer: C



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55. A dicot plant lacking cotyledons is

- A. *Cuscuta*
- B. *Pistia*
- C. *Dianthus*
- D. *Ranunculus*

Answer: A



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56. Monocarpic plant

- A. Flowers twice in a year
- B. Producers only one fruit
- C. Flowers once on life and then dies
- D. Bears only one type of flowers

Answer: C



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57. Which one is an insectivorous plant?

A. *Vallisneria*

B. *Rafflesia*

C. *Santalum*

D. *Nepenthes*

Answer: D



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58. Which of the following is/are an angiospermic hydrophyte ?

- A. hydrilla
- B. Vallisneria
- C. Zizyphus
- D. Both A and B

Answer: D



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59. Which of the following is not an insectivorous plant

A. Monotropa

B. Drosera

C. Utricularia

D. Nepenthes

Answer: A



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60. Science dealing with study of external form, size, colour ,structure and relative position of various parts of an organism is

A. Anatomy

B. Morphology

C. Entomology

D. Histology

Answer: B



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61. Which one is an epiphyte

A. Cuscuta

B. Orchid

C. Drosera

D. Corypha

Answer: B



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62. Find the correct match

- A. Halophyte-Wheat
- B. Xerophyte-Mustard
- C. Gerophyte-Tomato
- D. Hydrophyte-Pistia

Answer: D



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63. Match the find the correct option

I

- (a) Strobilanthes
- (b) Martynia
- (c) Lodoicea
- (d) Viola

II

- (i) Tiger Claw Plant
- (ii) Century Plant
- (iii) Neelakuranji
- (iv) Common Pansy
- (v) Double Coconut

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

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

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

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

Answer: B



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Check Your Grasp

1. Mangrove plant live in
 - A. Alpine tundra
 - B. Tundra
 - C. Marshy areas along rivers
 - D. Marshy areas along sea shores.

Answer:



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2. Lianas and epiphytes are quite abundant in

A. Taiga

B. Mixed temperate forests

C. Moist tropical forests

D. Dry tropical forests

Answer: c



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3. Strawberry is a

- A. Twiner
- B. Creeper
- C. Climber
- D. Trailer.

Answer:



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4. A mycotrophic humus plant is

- A. *Neottia*
- B. *Wullschleigelia*
- C. *Monotropa*
- D. None of the above

Answer:



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**5. A total root parasite on Tomato and Brinjal
is**

- A. Cistanche
- B. Orbanche
- C. Striga
- D. Balanophora

Answer:



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6. A partial root parasite is

- A. *Balanophora*
- B. *Rafflesia*
- C. *Santalum*
- D. *Dipterocarpus*

Answer:



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7. Venus Fly Trap belongs to

A. Greece/Europe

B. Arabia

C. America

D. Asia

Answer:



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8. A carnivorous plant similar to Utricularia in being rootless aquatic and resembling Venus Fly Trap in catching mechanism is

A. Aldrovanda

B. Pinguicula

C. Drosera

D. Sarracenia

Answer:



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9. Pitcher plant Dischidia differs from Sarracenia and Nepenthes in

A. Sessile pitcher

B. Absence of lid

C. Absence of insect trapping

D. Both B and C

Answer:



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10. Belt's corpuscles occur on

A. Causarina roots

B. Casuarina leaves

C. Leaves of *Acacia sphaerocephala*

D. Roots of *Acacia sphaerocephala*.

Answer:



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