Q-1 - 13466695

Read the given statements and select the correct option. Statement-1: Root cap protects the root meristem from the frition of the soil and its outer cells are continously replaced by newer ones.

Statemnent 2 : The effect of the coil-friction damages the outer cells of root cap which are peeled off and replaced by new cells produced by root meristem.

(A) Both statements 1 and 2 are correct.

(B) Statement 1 is correct but statement 2 is incorrect.

(C) Statement 1 is incorrect but statement 2 is correct.

(D) Both statement 1 and 2 are incorrect.

CORRECT ANSWER: A

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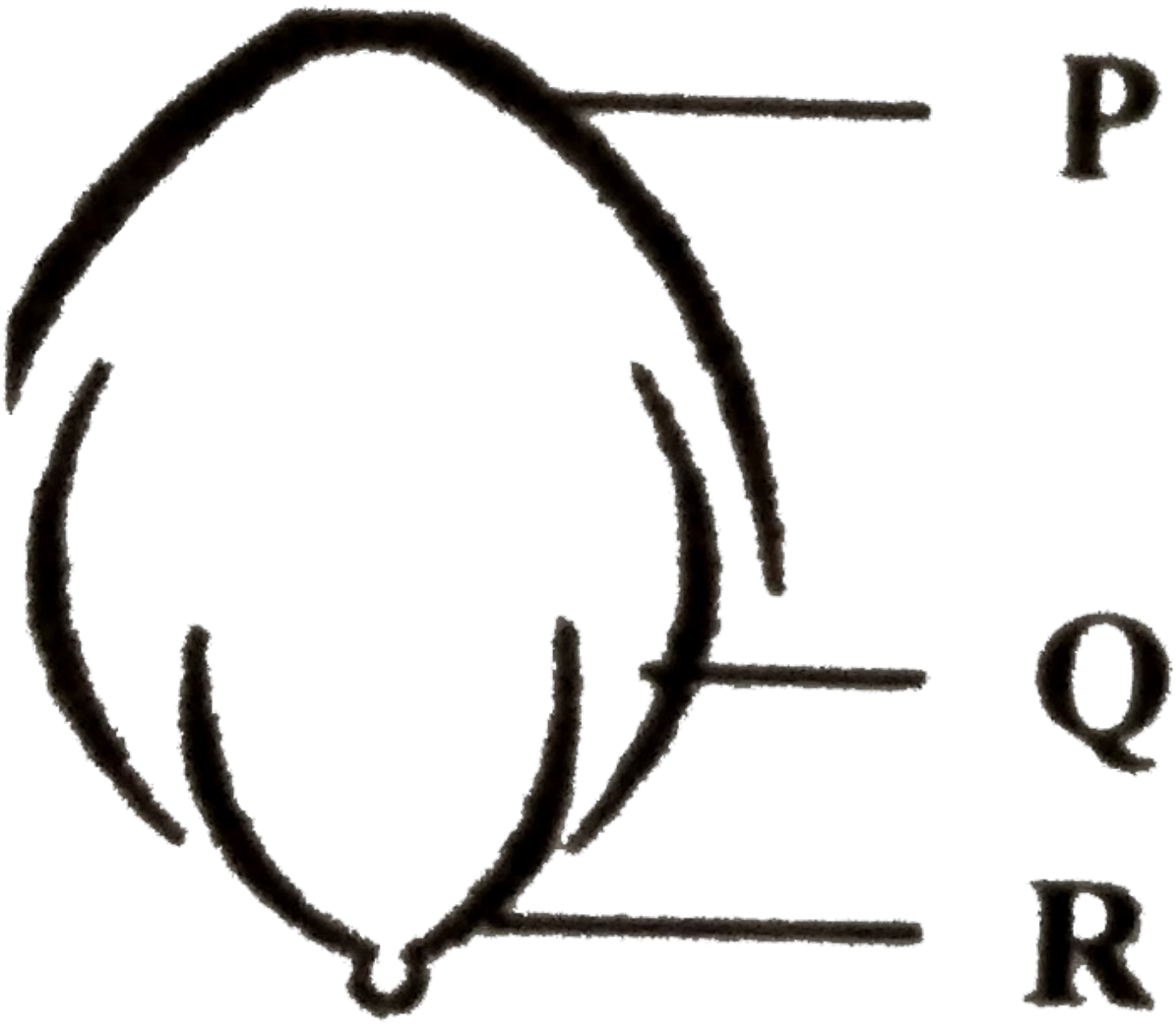
Q-2 - 13466773

The given figure represents vexillary aestivation. Select the suitable labels for P,Q and R



	(P)	(Q)	(R)
(A)	Standard	Wing	Ala
(B)			

(P)	(Q)	(R)
Standard	keel	Wing

(C)

(P)	(Q)	(R)
Wing	keel	Carina

(D)

(P)	(Q)	(R)
Standard	Ala	Carina

CORRECT ANSWER: D

SOLUTION:

In verxillary/descending imbricate aestivation, the posterior petal (standard) overlaps the two lateral petals (wings or alae) and the latter overlap the two anterior petals (keel or carina). It is also called papilionaceous corcolla and is found in members of Family papilionanceae.

Q-3 - 13466713

Read the given statements and select the correct ones.

(i) Root caps are present in prop roots.

(ii) Pneumatophores helf to get oxygen for respiration.

(iii) Edible part of ginger is underground stem.

(iv) Hydrophytes usually possess a well developed root system.

(A) (i) and (ii) only

(B) (ii) and (iii) only

(C) (i),(ii) and (iii)

(D) (i),(ii),(iii) and (iv)

CORRECT ANSWER: C

SOLUTION:

Hydrophytes are plants adapted for growing in water. In

hydrophytes roots are of secondary importance so they are poorly developed.

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Q-4 - 13466721

In Opuntia, the function of photosynthesis is carried out by

(A) cladode

(B) phyllode

(C) phylloclade

(D) stipules.

CORRECT ANSWER: C

SOLUTION:

Phylloclades of Opuntia represent flattened green flashy

stems of unlimited growth which have taken over the function of photosynthesis.

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Q-5 - 13466733

Parallel venation is a characteristic of monocots. Which of the following is an exception to this generalisation ?

(A) Smilax

(B) Colocasia

(C) Alocasia

(D) All of these

CORRECT ANSWER: D

SOLUTION:

In case of parallel venation, the veins run parallel to each other and network is not formed. This type of venation is the characteristic feature of monocots. There are few exceptions, e.g., Smilax, Colocasia, Alocasia, Dioscorea, etc.

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Q-6 - 13466737

Finely dissected leaf may be an adaptation of

(A) xerophytes

(B) psssammophytes

(C) halophytes

(D) hydrogphytes.

CORRECT ANSWER: D

SOLUTION:

The submerged leaves of hydrophytes are often highly dissected or divided to create to very large surface area for absorption and photosynthesis. It also minimises water resistance and hence potential damange to the leaves due to tearing effect of water.

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Q-7 - 13466746

Spines present on the areoles of Opunita represent

(A) stem

(B) leaves

(C) buds

(D) phyllodes

CORRECT ANSWER: B

SOLUTION:

In Opuntia leaves are modified into spines in order to protect the plant from grazing animals and excessive transpiration.

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Q-8 - 13466756

Which plants part is modified into pitcher in pitcher plants ?

(A) Root

(B) Stem

(C) Leaf

(D) Flower

CORRECT ANSWER: C

SOLUTION:

In Nepenthes (pitcher plant), the leaves are modified into pitchers to catch and digest the insect. The pitcher of Nepenthes is modified lamina. The apex of leaf is modified into lid which covers the opening of pitcher.

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Q-9 - 13466766

If the gynoecium is present in the topmost position of the thalamus, then the flower is referred to as

(A) hypogynous

(B) perigynous

(C) epigynous

(D) none of these

CORRECT ANSWER: A

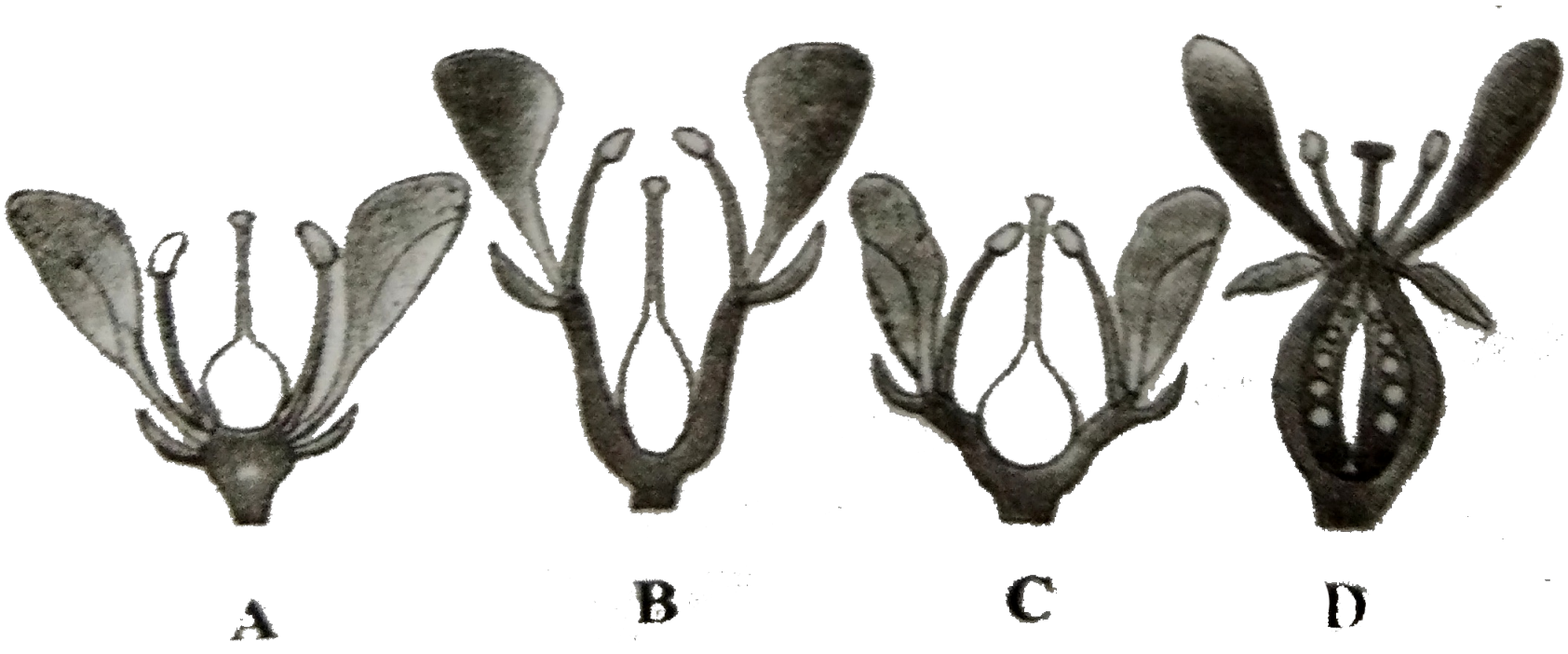
SOLUTION:

In hypogynous condition of flowers, the thalamus is convex or conical. Gynoecium occupies the topmost (superior) position at the thalamus and other part of flower are borne successively below. Androperianth or other floral organs are inferier, e.g., Hibiscus rosa sinensis, Ranunculus, Brassica, brinjal, etc.

Q-10 - 13466770

Based on the position of floral parts on thalamus, the flowers, are described as hypogynous, perigynous and epigynous. Which of the following floral forms (A-D) represents the flowers of Rosa and

Prunus respectively ?



(A) A and B

(B) B and C

(C) C and D

(D) B and D

CORRECT ANSWER: B

SOLUTION:

In perigynous condition of a flower, the gynoecium is situated in the centre and other floral parts are located on the rim of the thalamus almost at the same level.

Ovary is said to be half-inferior, e.g., Rosa (flask-shaped thalamus), Prunus (Cup-shaped thalamus).

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Q-11 - 13466779

Syngernesious condition of stamens is found in family

(A) Asteraceae

(B) Liliaceae

(C) Cruciferae

(D) Malvaceae.

CORRECT ANSWER: A

SOLUTION:

In Family Asteraceae, another syngenesious

(synantherous) in which stamens are fused together at their edges by another only, forming a ring around the gynoecium. The filaments are free, e.g., sunflower.

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Q-12 - 13466795

Select the mismatched pair out of the following

(A) Syconus - Ficus carica

(B) Sorosis - Ananas camosus

(C) Pome - Mangifera indica

(D) Cremocarp - Coriandrum sativum

CORRECT ANSWER: C

SOLUTION:

Pome is a false or accessory simple succulent fruit that develops from an inferior compound ovary, e.g., apple, pear. Mango (Mangifera indica) is a drupe fruit.

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Q-13 - 13466804

Monocotylendonous seeds possess a single cotyledon which is represented by

(A) tegmen

(B) endosperm

(C) scutellum

(D) aleurone.

CORRECT ANSWER: C

SOLUTION:

The single cotyledon of monocotyledonous seed (e.g. maize grain) is called scutellum. It occupies the major portion of the embryo regions of grains.

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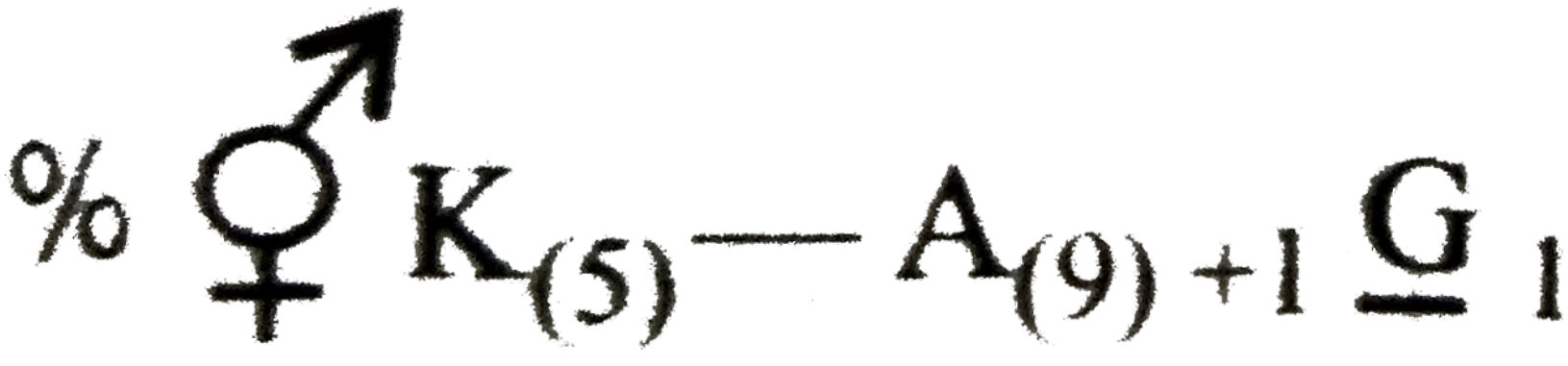
Q-14 - 13466812

Add the missing floral organs in the given floral formula of Family Fabaceae.



(A) C_{1+2+2}

(B) $C_{1+2+(2)}$

(C) C_{1+2+3}

(D) C_5

CORRECT ANSWER: B

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Q-15 - 13466821

Identify the family which shows the following diagnostic features.

Flowers pentamerous, gynoecium-bicarpellary,syncarpous, ovary placed obliquely , placentation axile , placenta swollen.

(A) Solanaceae

(B) Leguminosae

(C) Papilionaceae

(D) Liliaceae

CORRECT ANSWER: A

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Q-16 - 13466828

Select the pair which contains monocotyledonous families.

(A) Solanaceae and Brassicaceae

(B) Fabaceae and Asteraceae

(C) Liliaceae and Poaceae

(D) None of these

CORRECT ANSWER: C

SOLUTION:

Liliaceae (Lily family) and poaceae (= Gramineae, grass family) are the two monocot families.

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Q-17 - 13466849

The placenta is attached to the developing seed near the

(A) testa

(B) hilum

(C) micropyle

(D) chalaza

CORRECT ANSWER: B

SOLUTION:

A seed may have one or two coverings called seed coats. The outer or the only seed coat (if one is present) is called testa while the inner one is named as tegmen. Surface of the seed possesses a fine pore at one end called micropyle. Hilum is a place where funiculus or stalk of seed is borne. Some seeds also show chalaza (place of origin of seeds coats) and raphe (part of

funiculus tosed with seed wall).

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Q-18 - 40375964

Root shows negative geotropic in

(A) Pothos

(B) Ficus

(C) Acanthorhiza

(D) Sonneratia

CORRECT ANSWER: D

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Q-19 - 40375967

Root which grow from branches of Banyan tree are

(A) They are branches of the shoot system

(B) They are prop roots

(C) They are tendrils

(D) They are special organs

CORRECT ANSWER: B

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Q-20 - 40375971

Leafless stem of onion which produces cluster of terminal flowers is called

(A) Peduncle

(B) Floral axis

(C) Scape

(D) Rachis

CORRECT ANSWER: C

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Q-21 - 40375974

Which is not a modification of stem ?

(A) Tuber of potato

(B) Pitcher of Nepenthes

(C) Corm of Colocasia

(D) Rhizome of ginger

CORRECT ANSWER: B

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Q-22 - 40375977

Tripinnate compound leaf is the feature of

(A) Morina

(B) Psidium

(C) Rosa

(D) Mimosa

CORRECT ANSWER: A

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Q-23 - 40375983

In Nepenthes (Pitcher plant) the pitcher is formed due to modification of

(A) Leaf leaves

(B) Lamina

(C) Aestivation

(D) Leaf apex

CORRECT ANSWER: B

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Q-24 - 40375987

Find the correct match .

Column I	Column II
(a) Evolved inflorescence	(i) *Verticillaster*
(b) Gall flower	(ii) *Hypanthodium*
(c) Dichasial scorpioid	(iii) *Scorpioid*
(d) Cup-shaped involuare	(iv) *Capitulum*
	(v) *Cyathium*

(A) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (ii) , (c) $\rightarrow$ (i) , (d) $\rightarrow$ (v)

(B) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (ii) , (c) $\rightarrow$ (i) , (d) $\rightarrow$ (iii)

(C) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (i) , (c) $\rightarrow$ (ii) , (d) $\rightarrow$ (iii)

(D) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (v) , (c) $\rightarrow$ (i) , (d) $\rightarrow$ (iii)

CORRECT ANSWER: A

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Q-25 - 40375981

The terminal leaflets modify into curved hood for climbing in

(A) Wild pea

(B) Cocklebur

(C) Cat's nail

(D) Tiger's nail

CORRECT ANSWER: C

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Q-26 - 40375986

Inflorescence with thick , fleshy axis and large-colored bract is

(A) Spathe

(B) Spadix

(C) Spikelet

(D) Hypanthodium

CORRECT ANSWER: B

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Q-27 - 40375989

The inflorescence of coriander is

(A) Umbel

(B) Corymb

(C) Typical raceme

(D) Umbel of umbels

CORRECT ANSWER: D

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Q-28 - 40375997

The cohesion of stamens is shown by which one of the following conditions ?

(A) Gynandrous

(B) Gynostegium

(C) Synogenesious

(D) Epipetalous

CORRECT ANSWER: C

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Q-29 - 40376002

Perianth modifies into Iodicules in the members which also contain

(A) Spikelet inflorescence

(B) Monocarpellary ovary

(C) Tetramerous flower

(D) Both (1) and (2)

CORRECT ANSWER: D

Q-30 - 40376009

A dicot exalbuminous seed is

(A) Wheat seed

(B) Maize seed

(C) Castor seed

(D) Pea seed

CORRECT ANSWER: D

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Q-31 - 40376013

The presence of tetradynamous condition and false septum ,i.e., replum are the feature of family

(A) Solanaceae

(B) Brassicaceae

(C) Liliaceae

(D) Fabaceae

CORRECT ANSWER: B

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Q-32 - 40376005

Fruits developing from aporcarpous ovary are

(A) Simple fruits

(B) Aggregate fruits

(C) Composite fruits

(D) Pseudocarpic fruits

CORRECT ANSWER: B

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Q-33 - 40376016

Perigynous flowers and diadelphous condition are found in the

family ?

(A) Papilionaceae

(B) Caesalpinoidae

(C) Mimosoidae

(D) Solanaceae

CORRECT ANSWER: A

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Q-34 - 40376023

In Pisum sativum, the aestivation of corolla is

(A) Ascending imbricate

(B) Descending imbricate

(C) Quincuncial

(D) Valvate

CORRECT ANSWER: B

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Q-35 - 40375992

The most advanced type of inflorescence is

(A) Corymb

(B) Capitulum

(C) Spadix

(D) Polychasial cyme

CORRECT ANSWER: B

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Q-36 - 40375999

Development of flowers on old stems is an example of

(A) Anthesis

(B) Polycarpy

(C) Anthotaxy

(D) Cauliflory

CORRECT ANSWER: D

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Q-37 - 40376010

Seeds having longest viability belong to

(A) Chenopodium

(B) Quercus

(C) Nelumbo

(D) Eucalyptus

CORRECT ANSWER: C

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Q-38 - 40376018

Drug Santonin (anthelmintic) comes from

(A) Artemisia

(B) Taraxacum

(C) Emilia sonchifolia

(D) Cantipeda orbicularis

CORRECT ANSWER: A

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Q-39 - 40376007

The presence of pappus is the characteristic of which fruit ?

(A) Caryopsia

(B) Coleoptile

(C) Scutelium

(D) Epiblast

CORRECT ANSWER: B

Q-40 - 40376022

Feathery stigma and versatile stamens are the feature of family

(A) Poaceae

(B) Umbelliferae

(C) Liliaceae

(D) Malvaceae

CORRECT ANSWER: A

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Q-41 - 40376019

Heterogamous head is with

(A) Ray florets only

(B) Disc florets only

(C) Neuter flowers only

(D) Both ray and disc florets

CORRECT ANSWER: D

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Q-42 - 40376027

Palm oil is extracted from

(A) Glycin

(B) Gossypium

(C) Elaeis

(D) Olea

CORRECT ANSWER: C

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Q-43 - 40375993

The elongated part of thalamus between corolla and androecium is called

(A) Anthophore

(B) Androphore

(C) Gynophore

(D) Carpophore

CORRECT ANSWER: B

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Q-44 - 40376034

When pistillate and besexual flowers develop on defferent plants.

The condition is

(A) Gynodioecious

(B) Gymnomonoecius

(C) Polygamodiecius

(D) Polygamonoecius

CORRECT ANSWER: A

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Q-45 - 40376020

Zygomorphic flower occurs in the family which is

(A) Papilionaceae

(B) Poaceae

(C) Ray florets of Asteraceae

(D) All of these

CORRECT ANSWER: D

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Q-46 - 40376046

The characteristic type of placentation found in the members of caryophyllaceae is

(A) Axile

(B) Basal

(C) Parietal

(D) Free central

CORRECT ANSWER: D

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Q-47 - 40376008

Single shield of which of the following is an exalbuminous seed ?

(A) Coleorhiza

(B) Coleoptile

(C) Castor seed

(D) Pea seed

CORRECT ANSWER: C

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Q-48 - 40376028

Plants yielding colebiaine belong to the family

(A) Liliceae

(B) Asteraceae

(C) Lamiaceae

(D) Arecaceae

CORRECT ANSWER: A

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Q-49 - 40376025

Monoadelphous condition and pentacarpellary ovary are present in

(A) China rose family

(B) Pea family

(C) Potato family

(D) Yucca family

CORRECT ANSWER: A

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Q-50 - 13466699

Edible roots are found in

(A) rice

(B) wheat

(C) potato

(D) sweet potato

CORRECT ANSWER: D

SOLUTION:

The edible part of sweet potato is a modified adventitious fleshy root which is called as tuberous root or single root tuber. Due to storage of food, the adventitious roots become thick and fleshy. In sweet potato, the swollen roots do not assume any shape but occur singly. Very fine secondary roots occur all over tuber.

Q-51 - 13466704

Which of the following plants bears moniliform roots ?

(A) Momordica

(B) Curcuma

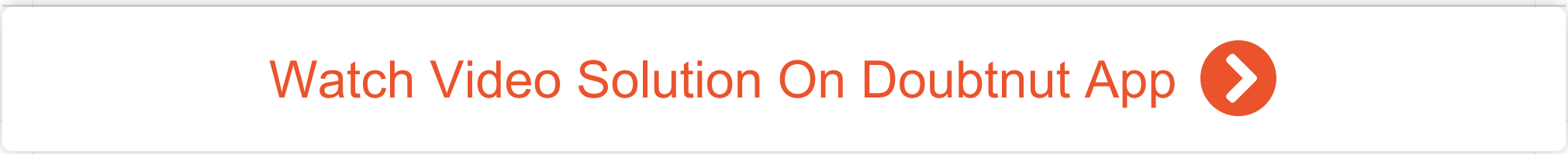
(C) Dahlia

(D) Asparagus

CORRECT ANSWER: A

SOLUTION:

Moniliform or beaded roots are fleashly adventitious roots which are swollen at regular intervals like beads of a necklace e.g., Basella ruba (Indian spinach), Momordica and some grasses.



Q-52 - 13466715

Read the following statements and select the correct option.

Statement -1 : the stem tubers are the swollen ends of spcialised

underground stem branches, which help in vegetative propagation of the plant.

Statement-2 : Solanum tuberosum is an example of a stem tuber which stores inulin as the main reserve food material.

(A) Both statements 1 and 2 are correct.

(B) Statement 1 is correct but statement 2 is incorrect.

(C) Statement 1 is incorrect but statement 2 is correct.

(D) Both statement 1 and 2 are incorrect.

CORRECT ANSWER: B

SOLUTION:

Stem tuber is an oval or spherical underground swollen stem structure which does not bear adventitous roots, e.g., potato (Solanum tuberosum), Jerusalen artichoke Helianthus tuberosus). Food reserve is starch in potato

and inulin in artichoke.

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Q-53 - 13466730

Which of the following represents the functions of veins in the leaves ?

(A) Transport of organic food material

(B) Mechanical support

(C) Transport of organic food material

(D) All of these

CORRECT ANSWER: D

SOLUTION:

Important functions of veins are : (i) Conduction of water

through xylem , (ii) Providing channels for translocation of organic nutrients , (iii) Conduction of minerals , (iv) The veins and veinlets provide skeletal support to the lamina so that it can remain stretched for its optimum functioning , (v) Veins and veinlets reduce the effect of wilting.

Q-54 - 13466734

Which of the following kinds of venation is present in banana ?

(A) Reticulate unicostate

(B) Reticulate multicostate

(C) Parallel unicostate

(D) Parallel multicostate

CORRECT ANSWER: C

SOLUTION:

In pinnate or unicostate parallel venation, there is single principle vein or midrib that runs from base to apex of the lamina. The lateral veins run parallel to one another without forming anastomoses, e.g., Musa paradisiaca (banana), Canna.

Q-55 - 13466739

In spiral phyllotaxy, the number of leaves at each node is

(A) one

(B) two

(C) three

(D) many

CORRECT ANSWER: A

SOLUTION:

The simplest type of phyllotaxy is alternate or spiral distichous in which the leaves of a brach form two alternate rows (e.g., Grass). In spiral phyllotaxy, a single leaf srises at each node in alternate manner.

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Q-56 - 13466749

Which of the following represents the edible swollen portion of Allium cepa ?

(A) Aerial stem

(B) Underground stem

(C) Internodes

(D) Leaf bases

CORRECT ANSWER: D

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Q-57 - 13466757

A small rootless aquatic herb in which a portion of leaf foms a tiny sach or bladder which traps water insects is

(A) Dionaea

(B) Utricularia

(C) Sarracenia

(D) Drosera.

CORRECT ANSWER: B

SOLUTION:

Leaf bladders occur in the aquatic carnivorous plants of Utrucularia (Bladderwort). Some of the leaf segments are modified to form small bladders. A bladder has sensitive hair, brached trigger bristles, a trap valve, internal and external glands for trapping and digesting small animals (e.g., water fleas).

Q-58 - 13466767

Read the given statements

(i) Gynoecium occupies the highest position while the other floral parts are situated below it.

(ii) Overy is superior.

(iii) Examples are Brassica, Hibiscus, brinjal, etc.

Which condition of flowers is being described by the above the statements ?

(A) Hypogyny

(B) perigyny

(C) epigyny

(D) none of these

CORRECT ANSWER: A

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Q-59 - 13466786

Overy is one-chambered but it becomes two-chambered due to the formation of false septum in

(A) Brassica

(B) Pisum

(C) Hibiscus

(D) Dianthus

CORRECT ANSWER: A

SOLUTION:

Parietal placetation occurs in the members of Family Brassicaceae. In Brassica, ovary is unilocular but modification occurs and it become bilocular, A false septum called replum develops between the two parietal placetae in mustard and other members of family.

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Q-60 - 13466796

X is scar on the seed coat through which the following seeds were

attached to the fuit, above the X is a small pore called Y.

Indetify X and Y and select the correct option .

(A) X Micropyle Y Hilum

(B) X Hilum Y Micropyle

(C) X Testa Y Tegmen

(D) X Chalaza Y Micropyle

CORRECT ANSWER: B

SOLUTION:

The outermost covering of a dicotydonous seed is the seed coat. The seed coat has two layers, the outer testa and the inner tegmen. The hilum is a scar on the seed coat through which the developing seeds were attached to the fruit. Above the hilum is a small pore called

micropyle. Within the seed coat is the embryo, consisting of an embryonal axis and two cotyledons.

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Q-61 - 13466807

Which floral conditions are represented by the symbols $\oplus$ and $\%$ respectively ?

(A) Zygomorphic and actinomorphic flowers

(B) Actinomorphic and zygomorphic flowers

(C) Hypogynous and epigynous flowers

(D) Bisexual and unisexual flowers

CORRECT ANSWER: B

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Q-62 - 13466814

Which floral family has (9)+1 arragements of enters in the androecium ?

(A) Malvaceae

(B) Rutaceae

(C) Fabaceae

(D) Caesalpinaceae

CORRECT ANSWER: C

SOLUTION:

Most common condition of androecium in the members of Family Fabaceae is diadelphous (9) + 1, in which out of total 10 stamens, nine are united by the lower half of their to form an incomplete tube around the pistial. Tenth

posterior stamen is free.

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Q-63 - 13466841

The mature seeds of plants such as gram and peas, possess no endosperm, because

(A) these plants are not angiosperms

(B) there is no double fertilisation in them

(C) endosperm is not formed in them

(D) endosperm gets used up by the developing embryo during seed development.

CORRECT ANSWER: D

SOLUTION:

Majority of dicot seeds (e.g., pea, gram, bean, mustard,groundnut) and a few monocut seeds (e.g., orchids, Sagittaria), are called nonendospermic or exalbuminous seeds because the endosperm is consumed during seed development and the food is stored in cotyledons and other region.

Q-64 - 40375961

The most dominant plants of present day vegetation are

(A) Thallophytes

(B) Bryophytes

(C) Flowering plants

(D) Pterdophytes

CORRECT ANSWER: C

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Q-65 - 40375965

When adventitious root shows swelling at regular intervals for food storage , it is called

(A) Tubercular root

(B) Nodulose root

(C) Moniliform root

(D) Annulated root

CORRECT ANSWER: C

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Q-66 - 40375968

The underground modification of stem occurs for which one of the following function ?

(A) Perennation

(B) Storage of food

(C) Vegetative propagation

(D) All of these

CORRECT ANSWER: D

Q-67 - 40375970

Modified stem into green , flattened branches of unlimited growth for assimilatory function is called

(A) Phyllode

(B) Phyllocblade

(C) Cladode

(D) Chylocauly

CORRECT ANSWER: B

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Q-68 - 40375973

Non-endospermic seed is absent in

(A) Soyabean

(B) Tulip

(C) Lupin

(D) Sunhemp

CORRECT ANSWER: B

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Q-69 - 40375975

A lateral branch with short internodes and each node bearing a rosette of leaves and tuft of roots is known as

(A) Sucker

(B) Offset

(C) Stolon

(D) Decumbent

CORRECT ANSWER: B

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Q-70 - 40375980

When leaves stand at right angle to next upper and lower pair , then

this phyllotaxy is called

(A) Alternate

(B) Opposite decussate

(C) Opposite superposed

(D) Whorled

CORRECT ANSWER: B

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Q-71 - 40375984

Occurrence of more than one type of leaves on the same plant is

(A) Vernation

(B) Venation

(C) Aestivation

(D) Heterophylly

CORRECT ANSWER: D

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Q-72 - 40375982

The duration between the development of two consecutive leaves is called

(A) Plastochron

(B) Phytochrome

(C) Phytron

(D) None of these

CORRECT ANSWER: A

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Q-73 - 40375985

The swollen petiole of Eichhornia is made up of

(A) Aerenchyma

(B) Parenchyma

(C) Chlorenchyma

(D) Collenchyma

CORRECT ANSWER: A

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Q-74 - 40375987

Find the correct match .

Column I	Column II
(a) Evolved inflorescence	(i) *Verticillaster*
(b) Gall flower	(ii) *Hypanthodium*
(c) Dichasial scorpioid	(iii) *Scorpioid*
(d) Cup-shaped involuare	(iv) *Capitulum*
	(v) *Cyathium*

(A) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (ii) , (c) $\rightarrow$ (i) , (d) $\rightarrow$ (v)

(B) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (ii) , (c) $\rightarrow$ (i) , (d) $\rightarrow$ (iii)

(C) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (i) , (c) $\rightarrow$ (ii) , (d) $\rightarrow$ (iii)

(D) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (v) , (c) $\rightarrow$ (i) , (d) $\rightarrow$ (iii)

CORRECT ANSWER: A

Q-75 - 40375995

If stamens are arranged in two whorls with antipetalous outer whorl , then the condition is

(A) Obdiplostamenous

(B) Diplostamenous

(C) Didynamous

(D) Epiphyllous

CORRECT ANSWER: A

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Q-76 - 40376000

Find incorrect match .

(A) Campanulate - Bell-shaded corolla

(B) Personate - Bilabiate corolla

(C) Caryophyllaceous - Butterfly shaped corolla

(D) Crusiform - Funnel shape

CORRECT ANSWER: C

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Q-77 - 40375778

Taxonomy without phylogeny is similar to bones without flesh is the statement of

(A) Oswald Tippo

(B) Bentham and Hooker

(C) Takhtajan

(D) John Hutchinson

CORRECT ANSWER: C

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Q-78 - 40376003

Vexillum is

(A) Posterior largest petal

(B) Anterior largest petal

(C) Found in pea family

(D) Permanent

CORRECT ANSWER: D

Q-79 - 40376012

Thorns and spines are -

(A) Respiratory organs

(B) Excretory organs

(C) Organs of offense

(D) Defensive organs

CORRECT ANSWER: D

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Q-80 - 40376006

Match the following .

Column I	Column II
(a) Amphisarca	(i) Aegle
(b) Pepo	(ii) Cucumis
(c) Drupe	(iii) Ananas
(d) Sorosis	(iv) Juglans

(A) (a) $\rightarrow$ (i) , (b) $\rightarrow$ (ii) , (c) $\rightarrow$ (iv) , (d) $\rightarrow$ (iii)

(B) (a) $\rightarrow$ (i) , (b) $\rightarrow$ (ii) , (c) $\rightarrow$ (iii) , (d) $\rightarrow$ (iv)

(C) (a) $\rightarrow$ (iii) , (b) $\rightarrow$ (ii) , (c) $\rightarrow$ (i) , (d) $\rightarrow$ (iv)

(D) (a) $\rightarrow$ (ii) , (b) $\rightarrow$ (i) , (c) $\rightarrow$ (iv) , (d) $\rightarrow$ (iii)

CORRECT ANSWER: A

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Q-81 - 40376015

Family Leguminosae is classified into three sub-families on the basis of

(A) Calyx and corolla

(B) Symmetry of flower

(C) Corolla and androecium

(D) Corolla and carpels

CORRECT ANSWER: C

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Q-82 - 40375990

Axis of the spikelet is known as

(A) Rachilla

(B) Pedicel

(C) Appendage

(D) Rachis

CORRECT ANSWER: A

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Q-83 - 40376011

Find incorrect matching .

(A) Anemochory - Taraxacium

(B) Hydrochory - Coccos

(C) Zoochory - Antirrhinum

(D) Autochory - Phlox

CORRECT ANSWER: C

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Q-84 - 40376004

When calyx is shed with the opening of floral bud , it is known as

(A) Caducous

(B) Deciduous

(C) Temporary

(D) Permanent

CORRECT ANSWER: A

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Q-85 - 40375998

The most primitive and advanced type of placentations are ,

respectively ,

(A) Marginal and axile

(B) Superficial and axile

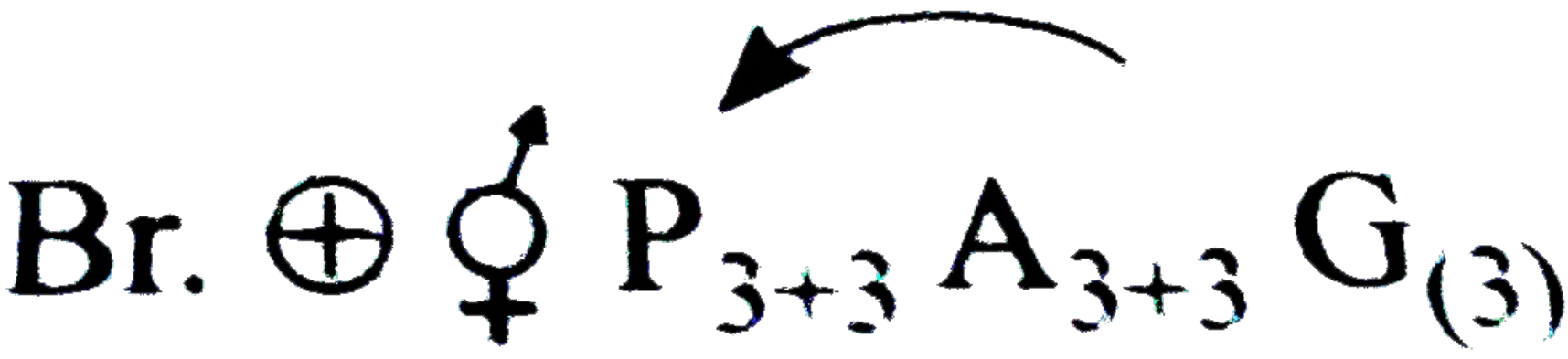
(C) Superficial and basal

(D) Parietal and basal

CORRECT ANSWER: C

Q-86 - 40376021

Floral formula



represents which one of the following groups of family ?

(A) Crotolaria and Astragalus

(B) Lepidium and Ibaeris

(C) Allium and Asparagus

(D) Vetiverai and Cymbopogon

CORRECT ANSWER: C

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Q-87 - 40376026

Largest angiospermic family with advanced type of placentation is

(A) Poaceae

(B) Asteraceae

(C) Cucurbitaceae

(D) Both (1) and (2)

CORRECT ANSWER: B

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Q-88 - 40376032

Staminal tube comes out of flower in

(A) Pisum sativum

(B) Cassia fstula

(C) Hibiscus

(D) Iberis

CORRECT ANSWER: C

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Q-89 - 40375991

Three types of flowers occur in the inflorescence of

(A) Capitulum

(B) Hypanthodium

(C) Cyanthium

(D) Umbel

CORRECT ANSWER: B

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Q-90 - 40376041

Replum is present in the ovary of flower of

(A) Mustard

(B) Pea

(C) Sunflower

(D) Lemon

CORRECT ANSWER: A

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Q-91 - 40376024

Match the following .

Column I	Column II
(a) Sinigrin	(i) Liliaceae
(b) Carthamin	(ii) Brassicaceae
(c) Atropine	(iii) Solanaceae
(d) Aloin	(iv) Asteraceae

(A) (a) $\rightarrow$ (ii) , (b) $\rightarrow$ (iv) , (c) $\rightarrow$ (iii) , (d) $\rightarrow$ (i)

(B) (a) $\rightarrow$ (ii) , (b) $\rightarrow$ (iv) , (c) $\rightarrow$ (i) , (d) $\rightarrow$ (iii)

(C) (a) $\rightarrow$ (i) , (b) $\rightarrow$ (ii) , (c) $\rightarrow$ (iii) , (d) $\rightarrow$ (iv)

(D) (a) $\rightarrow$ (i) , (b) $\rightarrow$ (ii) , (c) $\rightarrow$ (iv) , (d) $\rightarrow$ (iii)

CORRECT ANSWER: A

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Q-92 - 40376014

The scientific name of black mustard is

(A) Brassica campestris

(B) B. rapa

(C) B. Juncea

(D) B. nigra

CORRECT ANSWER: D

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Q-93 - 40376004

When calyx is shed with the opening of floral bud , it is known as

(A) Caducous

(B) Deciduous

(C) Temporary

(D) Permanent

CORRECT ANSWER: A

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Q-94 - 40375988

Bisexual sessile and bracteates flowers developing acropetally in

(A) Raceme

(B) Panicle

(C) Spike

(D) Corymb

CORRECT ANSWER: C

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Q-95 - 13466702

Select the group of plants that posess stilt roots.

(A) Zea mays, Rhizophora mangal

(B) Pandanus odoratissimus, Ficus benghalensis

(C) Rhizophora mangal, Hedera helix

(D) Ficus benghalensis, Pisum sativum

CORRECT ANSWER: A

Q-96 - 13466710

Unbranched, erect, cylindrical stouta axis with distinct nodes and internodes and with joined appearance is called as

(A) runner

(B) sucker

(C) culm

(D) caudex.

CORRECT ANSWER: C

SOLUTION:

Erect, unbranched stems with distinct noded and internodes are called culms, nodes are swollen giving a joined appearance, e.g., bamboo.

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Q-97 - 13466720

In Bougainvillea, weak stems rise up a support by clinging to it with the helo of curverd thorns, such plants are called as

(A) tendrils

(B) hooks

(C) offsets

(D) scramblers.

CORRECT ANSWER: D

SOLUTION:

Bougainvillea is one of many plants that fall into the scramblers category. These plants have long, flexible, curved stem thorns which help them in gripping neighbouring stems and climbing.

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Q-98 - 13466731

Reticulate venation is a characteristic of dicots. An exception to this

generalisation is

(A) Calophyllum

(B) Ficus

(C) Hibiscus

(D) Zizyphus.

CORRECT ANSWER: A

SOLUTION:

In reticulate venation, the veinlets form a reticulum or network. Reticulate venation is found in dicots except Calophyllum, Corymbium, Eryngium, etc.

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Q-99 - 13466736

A simple leaf can be differentiated from the pinnae of a compound leaf on the basis of presence or absence of

(A) number of pinnae

(B) shape of lamina

(C) axillary bud

(D) lateral buds.

CORRECT ANSWER: C

SOLUTION:

A compound lead is that where the lamina is completely broken down into distinct segments or leaflets which are separately articulated at base. Leaflets resemble leaf in having basem stalks, blade. Leaflets differ from the whose leaves in the absence of axillary buds. basal stipules and origin in the same plane.

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Q-100 - 13466745

Leaf tip tendrils are present in

(A) Smilax

(B) Lathyrus

(C) Pisum

(D) Gloriosa.

CORRECT ANSWER: D

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Q-101 - 13466754

Parkinsonia is a good example of

(A) phylloclade

(B) parachute mechanism

(C) phyllode

(D) winged fruits.

CORRECT ANSWER: C

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Q-102 - 13466759

_____inflorescence is a compact spike-like inflorescence with small unisextual flowers.

(A) Spike

(B) Corymb

(C) Catkin

(D) Umbel

CORRECT ANSWER: C

SOLUTION:

Catkin inflorescene is a compact unisexual often hanging, spike which matkures and falls down as a single unit, e.g., mulberry poplar.

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Q-103 - 13466768

Ovary is said to be half inferior in which of the following conditions ?

(A) Hypogynous

(B) Perigynous

(C) epigynous

(D) Both (b) and (c)

CORRECT ANSWER: B

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Q-104 - 13466775

Find out the incorrect match

(A) Sterile staman- Staminode

(B) Stamens attached to petals - Epipetalous

(C) Stamens attached to perianth -Episepalous

(D) Free stamens - Polyandrous

CORRECT ANSWER: C

SOLUTION:

When stemens are attached to the perianth, they are

known as epipyllous, e.g., Asparagus, lily.

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Q-105 - 13466789

Maize grain is a fruit known as

(A) cypsela

(B) caryopsis

(C) legume

(D) achene.

CORRECT ANSWER: B

SOLUTION:

Caryopsis is a small, indehiscent, one seeded fruit

developing from a monocarpellary ovary in which the

pericarp is fused with the seed coat. The seed completely fills the chamber, e.g., wheat, maize.

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Q-106 - 13466799

Endospermic seeds are found in

(A) barley

(B) castor

(C) pea

(D) both (a) and (b)

CORRECT ANSWER: D

SOLUTION:

Food storing tissue of a seed is endosperm. In flowering

plants. It is produced as a result of double fertillsation. In most monocot and some dicot seeds, the food reserve remains in the endosperm. They are called endospermic or albuminous seeds, e.g., cereals, castor bean, cocount, rubber. In majority of dicot seeds (e.g, pea gram, bean, mustard,groundnut) and some monocot seeds (e.g., orchids, Sagittaria), the endosperm is consumed during seed development and the food is stored in cotyledons and other regions. they are called non-endospermic or exalbuminous seeds.

Q-107 - 13466810

Marginal placentation is generally found in family

(A) Leguminosea

(B) Cucurbitaceae

(C) Malvaceae

(D) Brassicaceae

CORRECT ANSWER: A

SOLUTION:

In marginal placentation, one or two alternate rows of ovules occur longitudinally along the ridge in the wall of the ovary in the area of fusion of its two margins or ventral suture, A true placenta is believed to be absent. Ovary is unilocular. Marginal placetation is found in monocarpellary pistils of Leguminosae (e.g., Pea, Cassia, Acacia) and other plants (e.g., Larkspur).

Presistent calyx is the character of plants belonging to Family

(A) Solanaceae

(B) Malvaceae

(C) Cruciferae (Brassicaceae)

(D) Compositae.

CORRECT ANSWER: A

SOLUTION:

In members of a Famoly Solananceae (e.g., Solanum),

sepals remains attached till the maturation of the fruit

and do not fall off, thus termed persistent.

Which of the following is a correct combination of family and its respective members ?

(A) Fabaceae-Colchicum autumnale, Trifolium alexandrinum

(B) Solanaceae-Withania somnifera, Petunia

(C) Liliaceae-Sesbania, Asparagus

(D) Asteraceae-Sonchus asper, Nicotiana tabacum

CORRECT ANSWER: B

Q-110 - 13466832

Roots are modified to perform specific functions other than their normal functions.The given figure shows modification of the roots of mangrove plant.Select the incorrect option regarding it.

(A) The stilt roots of red mangrove help in breathing

(B) The root system is highly entangled, huge and extensive under the water.

(C) A large number of animals such as small fishes, crustaceans, seahorses, etc. find shelter in this root

system

(D) Besides providing mechanical support, these roots also perform photosynthetic functions in the plant.

CORRECT ANSWER: D

SOLUTION:

Red mangroves, which can survive in the most inundated areas, prop themselves above the water level with the help of stilt roots and can then absorb air (oxygen) through the lenticels present in the stilt roots. The given figure represents the stilt roots of Rhizophora species (e.g., R mangle), commonly called red mangroves. Stilt root arise from the stem or stem branches and grow towards the soil where the develop an underwater and develop a huge and extensive underwater root system where countless animals

espicially small fishes, sea fishes, sea horses etc., find shelter.

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Q-111 - 40375962

The origin of root hairs and lateral roots is , respectively ,

(A) Exogenous and endogenous

(B) Endogenous and exogenous

(C) Both endogenously

(D) Both exogenously

CORRECT ANSWER: A

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Q-112 - 40375966

Pneumatophores are generally present in

(A) Mangrove plants

(B) Xerophytes

(C) Hydrophytes

(D) Epiphytes

CORRECT ANSWER: A

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Q-113 - 40375969

Find the correct match .

Column I	Column II
(a) Tunicated bulb	(i) *Dioscorea*
(b) Straggling rhizome	(ii) *Colocasia*
(c) Stolon	(iii) *Saccharum*
(d) Bulbil	(iv) *Allium*

(A) (a) $\rightarrow$ (i) , b $\rightarrow$ (iii) , (c) $\rightarrow$ (ii) ,(d) $\rightarrow$ (iv)

(B) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (iii) , (c) $\rightarrow$ (ii) , (d) $\rightarrow$ (i)

(C) (a) $\rightarrow$ (iv) , (b) $\rightarrow$ (iii) , (c) $\rightarrow$ (i) , (d) $\rightarrow$ (ii)

(D) (a) $\rightarrow$ (iii) , (b) $\rightarrow$ (iv) , (c) $\rightarrow$ (ii) , (d) $\rightarrow$ (i)

CORRECT ANSWER: B

Q-114 - 40375972

Analogous structure of phylloclade is called

(A) Pitcher

(B) Phyllode

(C) Cladode

(D) Bulbil

CORRECT ANSWER: B

Q-115 - 40375976

Acaulescent habit is related to

(A) Allium sp.

(B) Iberis sp.

(C) Polyalthis sp.

(D) Palms

CORRECT ANSWER: A