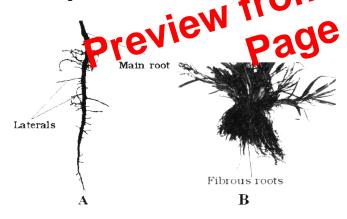


- 12. Select the option with either incorrect identification or incorrect feature / function.
  - 1) 1 Node, it gives rise to branches or leaves
  - 2) 2 Internode, it is part of stem between two nodes.
  - 3) 3 Petiole, it may be terminal or axillary in position.
  - 4) 4 Root, it is responsible for absorption of water and minerals.
- 13. In sweet potato which roots are modified for storage?
  - 1) Tap roots
- 2) Adventitious roots
- 3) Stilt roots
- 4) Prop roots.
- 14. Adventitious roots are found in all of the following except:
  - 1) Grass
- 2) Banyan
- 3) Monstera
- 4) Mustard.
- 15. A and B are two types of root systems. Selet the option with correct information



- 1) A Tap root system, found in Maize
- 2) A Adventitious root system, found in Mustard
- 3) B Fibrous root system, found in cereals
- 4) B Adventitious root system, found in grass.
- 16. Tap root originate from:
  - 1) Radicle
- 2) Stem
- 3) Leaves
- 4) Adventitious roots.

- 17. In aquatic plants, root cap is:
  - 1) Well developed and single in number
  - 2) Poorly developed or absent
  - 3) Well developed and multiple in number
  - 4) Lignified.
- 18. Match the column A (type of root) with column B [example of plants):

Column A

Column B

I. Tap roots

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- 1. Maize
- II. Fibrous roots
- 2. Mustard
- 3. Wheat
- 4. Sugarcane
- 5. Neem
- 1) I 2, 4, II 1, 3, 5
- 2) I 2, 5, II 1, 74



- 4) I -5, IA- 1, 2, 3, 4
- 19 ilt roots originate from-
  - 1) Primary roots
  - 2) Secondary roots
  - 3) Lower node of stem
  - 4) Axillary bud of leaf.
- 20. Out of the following plants, how many possess stilt roots? [Banyan, Neem, Carrot, Maize, Mustard, Monstera, Sugarcane]
  - 1) 2

2) 3

3) 4

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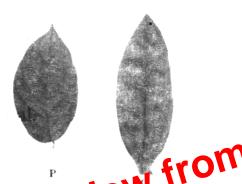
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4) 5

- 21. What is common between stilt roots and proproots?
  - 1) Both are meant for storage
  - 2) Both originate from lower node of stem
  - 3) Both are found in members of same genus
  - 4) Both provide mechanical support.



- 49. If leaflets are attached to a common point, leaf | <sup>\*</sup>∪ ∪ ≃ is said to be -
  - 1) Whorled
- 2) Alternate
- 3) Opposite
- 4) Palmately compound
- 50. Select the option in which the plants are incorrectly matched with the type of leaf:
  - 1) Neem compound leaf
  - 2) Peepal palmately compound leaf
  - 3) Cyccis pinnately compound leaf
  - 4) Silk cotton palmately compound leaf.
- 51. Two types of venation are shown in leaves P and Q. Which of the following statement is correct regarding given diagram?



- 1) Leaf Chive rediculate venator, and can be observed in neem and maize.
- 2) Leaf P shows parallel venation, which can be observed in wheat are maize.
- 3) Leaf Q shows reticulate venation, which can be observed in sugarcane and peepal.
- 4) Leaf Q shows parallel venation, which can be observed in sugarcane and maize.
- 52. In which of the following plant, tendril is be modification of leaf?
  - 1) Pea

- 2) Grapevines
- 3) Pumpkins
- 4) Cucumber.
- 53. Leaves become fleshy to store food in -
  - 1) Calotropis, Guava
  - 2) Onion, Garlic
  - 3) Turnip, Carrot
  - 4) Colocasia, Zaminkand.

- 54. Arrangement of leaves on stem is known as-
  - 1) Inflorescence
- 2) Aestivation
- 3) Venation

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- 4) None.
- 55. A compound leaf is shown in diagram :



Select the option with correct identification of type of leaf and one of its hample in which it is found.

Dim Mely compound, Peepal

- 2) Pinnally com'pound, Neem
- Palmately compound, Banana
- 4) Palmately compound, Silk cotton.
- 56. Leaf base if becomes swollen, is termed as.....and is found in.....
  - 1) Peduncle, cereals
- 2) Peduncle, legumes
- 3) Pulvinus, cereals
- 4) Pulvinus, legumes.
- 57. Which of the following is not commonly applicable to dicots?
  - 1) Venation Reticulate mostly
  - 2) Roots Tap roots usually
  - 3) Number of cotyledons in seed Two
  - 4) Seeds Endospermic only.
- 58. Multiple leaves originating from each node of stem can be observed in
  - 1) Alstonia
- 2) Calotropis
- 3) China rose
- 4) Neem



- 122. Which placentation is correctly matched with an example?
  - 1) Axile

Lemon

2) Basal

Mustard

3) Free central

Pea

4) Parietal

Primrose

- 123. Placentation in Primrose and Dianthus isrespectively:
  - 1) Marginal, axile
  - 2) Free central, axile
  - 3) Basal, marginal
  - 4) Free central, Free central.
- 124. Identify the placentation in which ovules are located on central axis and no septa are found in overy in ovary.
  - 1) Marginal
- 2) Axile
- 3) Free central
- 4) Basal.
- 125. Identify the aestivation given in diagram with suitable example:



- 1) Imbricate, Bean
- 2) Imbricate, Cassia
- 3) Vexillary, Gulmohar
- 4) Vexillary, Pea.
- 126. Assertion: In mango and coconut, the fruit is known as drupe.

**Reason :** The fruit develope in above plant are  $\stackrel{\circ}{\approx}$ monocarpellery superior ovary and are one seeded.

- 1) Both the assertion and reason are true and the reason is a correct explanation of the assertion  $|\Sigma|$
- reason is not a correct explanation of the assertion 2) Both the assertion and reason are true but the
- 3) The assertion is true but reason is false
- 4) The assertion and reason are false

- 127. Identify the angiosperm in which ovary is monoloculated initially but because of development of a false septum it becomes biloculated later on. Also the ovules are attached to the inner wall of ovary.
  - 1) Dianthus
- 2) Argemone

3) Pea

- 4) Tomato.
- 128. Placentation in tomato:
  - 1) Axile
- 2) Marginal
- 3) Basal

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- 4) Free central.
- 129. Select the option in which placentation in ovary is correctly matched with examples:
  - 1) Basal Marigold, Sunflower
  - 2) Marginal China rose, Pea
  - 3) Free central Mtistard, Argemone
  - 4) Parietal Lemon, Primro
- 130. A and B are two type of lacentations shown





Select the option with correct identification of them

Α

В

- 1) Parietal
- Axile
- 2) Axile
- Free central
- 3) Parietal
- Free central
- 4) Marginal
- Axile
- 131. Single ovule attached to the basal part of ovary is found in:
  - 1) Tomato
- 2) Pea
- 3) Marigold
- 4) Dianthus.
- 132. In mango, mesocarp is:
  - 1) Thin, edible
  - 2) Fleshy, edible
  - 3) Thick, non-edible
  - 4) Stony hard, non-edible.

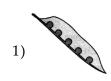
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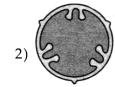


### 202. Sweet potato is homologous to [AIPMT (Mains)-2011]

- 1) Ginger
- 2) Turnip
- 3) Potato
- 4) Colocasia

# 203. Which one of the following diagrams represent the placentation in Dianthusl [AIPMT (Mains)-2011]









# 204. Cymose inflorescence is found in [AIPMT (Prelims)-2012]

- 1) Solanum
- 2) Sesbania
- 3) Trifolium
- 4) None of these
- 205. How many plants in the lift gw composite fruits that he verop from

[Walnut, Poppy, Radish, Fig, Pileapple, Apple, Tomato; Mulberry] [AIPMT (Prelims)-2012]

- 1) Four
- 2) Five
- 3) Two
- 4) Three

# 206. Vexillary aestivation is characteristic of the family [AIPMT (Prelims)-2012]

- 1) Fabaceae
- 2) Asteraceae
- 3) Solanaceae
- 4) Brassicaceae

#### 207. Placentation in tomato and lemon is [AIPMT (Prelims)-2012]

- 1) Marginal
- 2) Axile
- 3) Parietal
- 4) Free central

# 208. Phyllode is present in

#### [AIPMT (Prelims)-20121]

- 1) Australian Acacia
- 2) Opuntia
- 3) Asparagus
- 4) Euphorbia

#### 209. Which one of the following organisms is correctly matched with its characteristics? [AIPMT (Mains)-2012]

- 1) Pea: C<sub>3</sub> pathway, Endospermic seed, Vexillary aestivation
- 2) Tomato: Twisted aestivation, Axile placentation, Berry
- 3) Onion: Bulb, Imbricate aestivation, Axile placentation
- 4) Maize: C<sub>3</sub> pathway, Closed vascular bundles, Scutellum

# 210. How many plants in the list given below have marginal placentation?

Mustard, Gram, Tulip, Asparagus, Arhar, Sun hemp, ChiTli, Colchicine, Onion, Moong, Pea, [AIPMT (Mains)-2012] Tobacco, Lupin

- 1) Four

3) Six

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not thin, membranous in

- 2) Groundnut
- 🛩 Gram
- 4) Maize
- 212. Among bitter gourd, mustard, brinjal, pumpkin, china rose, lupin, cucumber, sunnhemp, gram, guava, bean, chilli, plum, Petunia, tomato, rose, Withania, potato, onion, Aloe and Tulip, how many plants have hypogynous flower? [NEET-2013]
  - 1) Ten

- 2) Fifteen
- 3) Eighteen
- 4) Six

# 213. In china rose, the flower are [NEET-2013]

- 1) Actinomorphic, epigynous with valvate aestivation
- 2) Zygomorphic, hypogynous with imbricate aestivation
- 3) Zygomorphic, epigynous with twisted aestivation
- 4) Actinomorphic, hypogynous twisted aestivation