

UNIT –II MORPHOLOGY OF ANGIOSPERMS

Previous Questions from AIPMT

1. Edible part in litchi is (2005)
a). Endosperm b). Pericarp c). Mesocarp d). Fleshy aril*
2. Why is vivipary an undesirable character for annual crop plants (2005)
a). It reduces the vigour of the plant
b). It adversely affects the fertility of the plant
c). The seeds exhibit long dormancy
d). The seeds cannot be stored under normal conditions for the next season*
3. Long filamentous threads protruding at the end of a young maize are (2006)
a) hairs b) anthers c) styles* d) ovaries
4. What type of placentation is seen in pea? (2006)
a) marginal* b) basal c) axile d) free central
5. In which of the fruits the edible portion is aril? (2006)
a) litchi* b) custard apple c) pomegranate d) orange
6. In a cereal grain the single cotyledon of an embryo is (2006)
a) coleoptiles b) coleorhizae c) scutellum* d) prophyll
7. The fleshy receptacle of syconus of fig encloses a number of (2008)
a) berries b) mericarps c) achenes* d) samaras
8. Dry dehiscent single seeded fruit formed from bicarpellary syncarpous inferior ovary is (2008)
a) berry b) cremocarp c) caryopsis d) cypsela*
9. Replum is present in the ovary of flower of (2008)
a) sun flower b) pea c) lemon d) mustard*
10. The fruit is chambered, developed from inferior ovary and seeds with succulent testa in (2008)
a) guava b) cucumber c) pomegranate* d) orange

11. Endosperm is consumed by developing embryo $\oplus \otimes$ in the seed of (2008)
 a) pea* b) maize c) coconut d) castor

12. The floral formula is that of (2009)
 $\oplus \otimes$
 a) soya bean b) sun hemp c) tobacco* d) tulip

13. A fruit developed from inflorescence is called as (2009)
 $\text{Ebr}, \text{Ebrl}, \oplus, \uparrow, \text{K}_{(5)}, \text{C}_{(5)}, \text{A}_5, \underline{\text{G}}_{(2)}$
 a) sorosis b) hypanthodium
 c) caryopsis d) hesperidium syconus*

14. An example of axile placentation is (2009)
 a) *Dianthus* b) lemon* c) marigold d) *Argemone*

15. Cotyledons and testa respectively are edible parts in (2009)
 a) walnut and tamarind b) French bean and coconut
 c) cashew nut and litchi d) ground nut and pomegranate*

16. An example of a seed with endosperm, perisperm and caruncle is (2009)
 a) coffee b) lily c) castor* d) cotton

17. Which one of the following is a xerophytic plant in which the stem is modified into the flat green and succulent structure? (2010)
 a) *Opuntia** b) *Casuarina* c) *Hydrilla* d) *Acacia*

18. Consider the following four statements A, B, C and D and select the right option for two correct statements. (2010)

Statements

(A) In vexillary aestivation, the large posterior petal is called - *standard*, two lateral ones are *wings* and two small anterior petals are termed *keel*

(B) The floral formula for Liliaceae is $P_{3+3} A_{3+3} + G_3$

(C) In pea flower the stamens are monadelphous

(D) The floral formula for Solanaceae is $K_{(3)} C_{(3)} A_{(4)} + G_{(2)}$

The correct statements are

a) (A) and (C) b) (A) and (B)* c) (B) and (C) d) (C) and (D)

19. Vegetative propagation in Pistia occurs by (2010)

- a) Stolon b) offset* c) runner d) sucker

20. Ovary is half-inferior in the flowers of (2010)

- a) brinjal b) cucumber c) guava d) plum*

21. The correct floral formula of soybean is 2010

- a) $\% \begin{matrix} \oplus \\ \oplus \end{matrix} K_{(5)} C_{1+(2)+2} A_{(9)+1} \overline{G_1}$ b) $\% \begin{matrix} \oplus \\ \oplus \end{matrix} K_{(5)} C_{1+(2)+2} A_{(9)+1} G_{\underline{1}}$
- c) $\% \begin{matrix} \oplus \\ \oplus \end{matrix} K_{(5)} C_{1+2+(2)} A_{(9)+1} G_{\underline{1}}$ d) $\% \begin{matrix} \oplus \\ \oplus \end{matrix} K_{(5)} C_{1+2+(2)} A_{1+(9)} G_{\underline{1}}^*$

22. Keel is characteristic of the flowers of (2010)

- a) *Calotropis* b) gulmohr c) Cassia d) bean*