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TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

BIOLOGY

DPP

DAILY PRACTICE PROBLEMS

DPP NO. 2

BOTANY : MORPHOLOGY OF FLOWERING PLANTS

DPP No. : 2

- The floral formula for sub family Papilionatae is represented as
 - Br % ♂ K₍₅₎ C₁₊₂₊₍₂₎ A₁₊₍₉₎ G₁
 - Br ⊕ ♂ K₍₅₎ C₅ A₁₊₍₉₎ G₁
 - Br % ♀ K₍₅₎ C₁₊₂₊₍₂₎ A₉₊₁ G₁
 - Ebr or Br % K₍₅₎ C₁₊₂₊₍₂₎ A₁₀ G₁
- The unit of inflorescence in grasses is
 - Thyrsis
 - Spike
 - Spikelet
 - Raceme
- Which of the following is a characteristic feature of fabaceae?
 - Descending imbricate, ten stamens, diadelphous, ovary inferior
 - Sepals five, gamosepalous, imbricate aestivation, axile placentation
 - Monocarpellary ovary inferior, style long, slightly bent at the apex
 - Zygomorphic flowers, vexillary aestivation in corolla, monocarpellary, ovary superior, diadelphous ten stamens, many ovules, placentation marginal
- Match the column-I with column-II

Column-I	Column-II
(a) <i>Oryza sativa</i>	(i) sugar
(b) <i>Cynodon dactylon</i>	(ii) ornamental plant
(c) <i>Saccharum officinarum</i>	(iii) Dye
(d) <i>Indigofera</i>	(iv) Cereal

Choose the correct answer from the following

 - (1)-(ii), (2)-(iii), (3)-(iv), (4)-(i)
 - (1)-(i), (2)-(ii), (3)-(iii), (4)-(iv)
 - (1)-(iv), (2)-(ii), (3)-(i), (4)-(iii)
 - (1)-(iii), (2)-(iv), (3)-(i), (4)-(ii)
- Which of the following is not correctly regarding family **Malvaceae**
 - Stamen – monoadelphous
 - Placentation - axile
 - Fruit – Caryopsis
 - Seed – Non endospermic

6. Unilocular basal placentation, syngenesious stamens and fruit cypsela with hairy pappus are characteristics of family
 (1) Malvaceae (2) Brassicaceae
 (3) Solanaceae (4) Asteraceae

7.

Family	Inflorescence	Flower	Stamens	Gynoecium
Brassicaceae	A	B	6	D
Malvaceae	Solitary, Axillary or Cymose	Actinomorphic	Indefinite	Pentacarpellary
Poaceae	Spike or spikelet and Penicle	Zygomorphic	C	Monocarpellary

A	B	C	D
(1) Raceme	Actinomorphic	3 or 3+3	Bicarpellary
(2) Cymose	Zygomorphic	2+4	Monocarpellary
(3) Penicle	Actinomorphic	9+(1)	Pentacarpellary
(4) Capitulum	Zygomorphic	3+3	Multicarpellary

8. Regarding to androecium of given families ,match the following

Family	Androecium
(a) Brassicaceae	(i) (2+4)
(b) Malvaceae	(ii) Monoadelphous
(c) Asteraceae	(iii) Syngenesious
(d) Poaceae	(iv) Six stamens in two whorl (2+4)
(1) a (iv), b (ii), c (iii), d (i)	(2) a (i) ,b (ii), c (iii), d (iv)
(3) a (iv) ,b (iii), c (ii), d (i)	(4) a (ii) ,b (i), c (iv), d (iii)

9. Among mustard, muliathi, watermelon, soyabean, pumpkin, ashwagandha, Asparagus, brinjal, Allium, Trifolium, Rose, Indigofera, bitter gourd, plum, cucumber, arhar, moong and peach, how many plants have hypogynous flowers?
 (1) Three (2) Ten (3) Four (4) Eleven

10. In china rose the flowers are :
 (1) Actinomorphic, epigynous with valvate aestivation
 (2) Zygomorphic, hypogynous with imbricate aestivation
 (3) Zygomorphic, epigynous with twisted aestivation
 (4) Actinomorphic, hypogynous with twisted aestivation

Answer key

1. (1) 2. (3) 3. (4) 4. (3) 5. (3) 6. (4) 7. (1)
 8. (1) 9. (4) 10. (4)