BIOLOGY



SYLLABUS: Morphology of Flowering Plants

Max. Marks: 180 Marking Scheme: + 4 for correct & (-1) for incorrect Time: 60 min.

INSTRUCTIONS: This Daily Practice Problem Sheet contains 45 MCQs. For each question only one option is correct. Darken the correct circle/ bubble in the Response Grid provided on each page.

- 1. Which one of the following is a true fruit?
 - (a) Apple
- (b) Pear
- (c) Cashew nut
- (d) Coconut
- 2. Pulses are belong to the family
 - (a) fabaceae
- (b) asteraceae
- (c) poaceae
- (d) solanaceae
- 3. In a cereal grain the single cotyledon of embryo is represented by
 - (a) scutellum
- (b) prophyll
- (c) coleoptile
- (d) coleorrhiza
- **4.** Perisperm is
 - (a) remnant of endosperm
 - (b) persistant nucellus
 - (c) remnant of embryo
 - (d) part of endosperm

- 5. The mode of catching insects in *Drosera* plants is by means
 - (a) sensitive glandular hairs which secrete a sweet, viscous, shining substance.
 - (b) specially sensitive trigger hairs.
 - (c) leaves which are modified into pitcher.
 - (d) leaf segments modified into bladder.
- **6.** Insectivorous plants grow in
 - (a) calcium deficient soil
 - (b) carbon deficient soil
 - (c) magnesium deficient soil
 - (d) nitrogen deficient soil
- 7. Which part of the coconut produces coir?
 - (a) Seed coat
- (b) Mesocarp
- (c) Epicarp
- (d) Pericarp

RESPONSE GRID

- 1. abcd
- 2. (a) b) c) d)
- 3. abcd
- 4. (a) (b) (c) (d)
- 5. abcd

6. abcd 7. abcd

Space for Rough Work

RESPONSE GRID	8. a b c d 9. a b c d 10. a b c d 11. a b c d 13. a b c d 14. a b c d 15. a b c d 16. a b c d 18. a b c d	

Space for Rough Work

DPP/CB05 в-19 19. Given below are the diagrammatic representation of **21.** Maize grain is a fruit known as position of floral parts on thalamus, condition of ovary (a) cypsela (b) carvopsis and example. Find the correctly matched combination? (d) achene (c) legume Position of **Condition** 22. Monocotyledonous root differs from dicot root in which Example floral parts of ovary of the following internal features (a to d)? on thalamus Presence of parenchymatous pericycle. (b) Absence of fewre xylem bundle. Presence of large and well-developed pith. (d) Presence of parenchymatous cortex without intercel-Cucumber \overline{G} (a) lular spaces. Select correct match w.r.t column I & II. 23. Column I Column II A. Modified tap root I. Zea mays for respiration G-Brinial (b) B. Storage tap root II. ipomoea Modified aventitious III. Rhizophora root for mechanical support Modified adventitious Turnip G Plum root for food storge A-III; B-IV; C-I; D-II (b) A-III; B-IV; C-II; D-I (c) A-IV; B-II; C-I; D-III (d) A-III; B-II; C-I; D-IV Rose G (d) The modified stem in some plants of arid region is (a) Tendril for climbring as in *Passiflora* Match Column-I with Column-II and select the correct Spines for defence mechanism Phylloclade for food synthesis option from the codes given below. (d) Phyllode for food synthesis Column-I Column-II 25. The modified stem in grasses, strawberry and A. Thorns I. Vegetative propagation Crysanthemum is concerned with special functions i.e., B. Phylloclades Defensive mechanism II.Food storage C. Runners III. Mechanical support Vegetative propagation ii. D. Stilt roots IV. Absorption of nutrition iii. Assimilation E. Photosynthesis Haustoria V Spread to new niches (a) A-I; B-IV; C-III; D-II; E-I Perennation (b) A-II; B-V; C-III; D-I; E-IV ii, iv (b) i, ii, v A-II; B-V; C-I; D-III; E-IV (c) ii, iv, v (d) iii, iv, v

Space for Rough Work

A-III; B-V; C-IV; D-I; E-II

в-20 DPP/ CB05 **26.** In which of the following type of flowers stamens are superior 35. An example of negatively geotropic root (a) Coralloid root of Cycas in position? (b) Pneumatophore of mangroves (a) Hypogynous (b) Perigynous (c) Epigynous (c) Assimilatory roots of Trapa (d) Protogynous (d) More than one of the above. 27. Inner layer of pericarp is hard and stony in 36 Santalum album is normally considered as a (a) Dateplam, Almond (b) Wood, apple, Pea (a) Complete root parasite (c) Mango, Coconut (d) Pear, Litchi (b) Partial root parasite **28.** Find out the incorrect match. (c) Complete stem parasite (a) Sterile stamen – Staminode (d) Partial stem parasite Stamens attached to petals – Epipetalous (b) An example of tuberous root that is a modification of tap foot Stamens attached to perianth – Episepalous (b) Mirabilis (a) Radish (d) Free stamens – Polyandrous (c) Sweet Potato (d) Ipomoea 29. Ovary is said to be half inferior in which of the following Ginger is a stem and not a root because conditions? (a) It stores food (a) Hypogynous (b) Perigynous (b) It is bitter in taste (c) **Epigynous** (d) Both (b) and (c) (c) It has nodes and internodes **30.** Identify the family which shows the following diagnostic (d) It is non-green in colour. 39. In *Allium*, the leafless part of the stem which bears flower is Flowers pentamerous, gynoecium-bicarpellary, syncarpous, called ovary placed obliquely, placentation axile, placenta swollen. (b) Scape (c) Caudex (d) Bulb (a) Culm Solanaceae (b) Le guminosae 40. Sweet Potato is a modification of Papilionaceae (d) Liliaceae (b) Stem (a) Root Select the pair which contains monocotyledonous families. (c) Bud (d) Flowering axis Solanaceae and Brassicaceae Epiphyllous buds serve the function of (b) Fabaceae and Asteraceae (a) Respiration (b) Nutrition (c) Liliaceae and Poaceae (d) Absorption (c) Reproduction (d) None of these 42. In a potato plant the tubers develop on 32. In Nepenthes (pitcher plant), the pitcher is formed due to (a) Primary root (b) Secondary root (c) Tertiary root (d) Stolon modification of (a) leaf petiole (b) leaflamina Root is the prolongation of (a) Plumule (d) leaflet (b) Radicle (c) tendril (c) Stem (d) Branches **33.** Example for tuberous adventitious roots Food stored in a bulb is within (a) Dahlia (b) Carrot (a) A swollen stem (b) Swollen leaf-bases (c) Radish (d) Beet (c) Enlarged roots (d) In the inflorescence A root-cap is usually absent in the roots of Cladode is the modification of (b) Epiphytes (a) Hydrophytes (a) Whole stem (b) Axillary bud (c) Parasites (d) All of the above (c) Leaf (d) Leaflets. 28. (a) (b) (c) (d) **29.** (a) (b) (c) (d) **30.** (a)(b)(c)(d) **26.** (a) (b) (c) (d) **27.**(a)(b)(c)(d) RESPONSE 32.(a)(b)(c)(d) 33. (a) (b) (c) (d) 35. (a)(b)(c)(d) 31.(a)(b)(c)(d) **34.** (a) (b) (c) (d) **39.** (a) (b) (c) (d) **40.** (a) (b) (c) (d) GRID 36.(a)(b)(c)(d) 37.(a)(b)(c)(d) 38. (a) (b) (c) (d) **42.**(a)(b)(c)(d) **43.** (a) (b) (c) (d) **44.** (a) (b) (c) (d) **45.** (a) (b) **41.**(a)(b)(c)(d) Space for Rough Work

DAILY PRACTICE PROBLEM DPP CHAPTERWISE 5 - BIOLOGY				
Total Questions	45	Total Marks	180	
Attempted		Correct		
Incorrect		Net Score		
Out-off S∞re	45	Qualifying Score	60	
Success Gap = Net Score - Qualifying Score				
Net Score = (Correct $\times 4$) – (Incorrect $\times 1$)				