

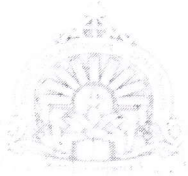
A Charutar Vidya Mandal's Institution

V.P. & R.P.T.P. SCIENCE COLLEGE

(AUTONOMOUS) (Grant-in-Aid)

Affiliated to Sardar Patel University

VALLABH VIDYANAGAR-388120



Bachelor of Science (Semester 3) External Examination - 2025
Subject Code:USO3MABOT02 Subject Name:Botany
(Plant morphology and Taxonomy)

Date: 07-10-25 (Tuesday)

Time: 2:00 PM to 4:30 PM (2.5 HRS)

Total marks :50

Q-1 Write the most appropriate answer from the following multiple-choice questions. [10]

- (1) Respiratory roots(Pneumatophores) are present in .
(a) Tinospora (b) Pinus
(c) Rizophora (d) colocasia
- (2) potatoes are cultivated by .
(a) Buds on tuber (b) seeds
(c) Foliar buds (d) cutting of roots
- (3) A plant that grows upon other plants known as _____.
(a) Shrub (b) Herb
(c) Epiphyte (d) sporophyte
- (4) Alternate phyllotaxy found in _____.
(a) Hibiscus (b) Ixora
(c) Nerium (d) Calotropis
- (5) Parallel venation seen in _____.
(a) Banana (b) Mango
(c) Neem (d) Shoe flower
- (6) Diadelphous stamen are found in _____ family .
(a) Malvaceae (b) Papilionaceae
(c) Solanaceae (d) Cucurbitaceae
- (7) A flower in which both stamens and pistils are present known as
(a) Unisexual (b) Bisexual
(c) Staminate (d) Pistilate
- (8) Milky latex is found in _____ family .
(a) Malvaceae (b) Euphorbiaceae
(c) Meliaceae (d) None of the above
- (9) In Malvaceae _____ placentation is found .
(a) Basal (b) Marginal
(c) Axile (d) Parietal
- (10) The standard size of an herbarium sheet is _____.
(a) 28.75 x41.25 cm (b) 18.75 x41.25cm
(c) 25.15 x40.25cm (d) 28.75 x35.25cm



Q-2 Describe the modification of adventitious root with suitable examples. [10]

OR

Q-2 (a) Explain modification of buds. [05]

(b) Describe underground modification of stem. [05]

Q-3 (a) Explain Phyllotaxy and its types with examples. [05]

(b) Describe Racemose inflorescence. [05]

OR

Q-3 (a) Explain stipules and its type [05]

(b) Describe Palmate compound leaf [05]

Q-4 (a) Explain seed germination [05]

(b) Describe different type of Placentation. [05]

OR

Q-4 Discuss Typical flower and its parts with labelled diagram. [10]

Q-5 Explain general characters of Cucurbitaceae family. [10]

OR

Q-5 (a) Describe collection and pressing of Specimen. [05]

(b) Explain general characters of Malvaceae family. [05]

