

Enrollment No:-\_\_\_\_\_

Exam Seat No:-\_\_\_\_\_

# C.U.SHAH UNIVERSITY

Summer-2015

Subject Code: 4LS01BOT1

Subject Name: Plant Morphology & Anatomy

Course Name: B.Sc. (Biotech/Micro)

Date: 7/5/2015

Semester:I

Marks: 70

Time:10:30 TO 01:30

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**Instructions:**

- 1) Attempt all Questions of both sections in same answer book/Supplementary.
  - 2) Use of Programmable calculator & any other electronic instrument prohibited.
  - 3) Instructions written on main answer book are strictly to be obeyed.
  - 4) Draw neat diagrams & figures (if necessary) at right places.
  - 5) Assume suitable & perfect data if needed.
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## SECTION I

Q.1 Define the following:

- a) Leaf b) Parenchyma c) Meristem d) Stem e) Phyllotaxy f) Vascular bundle  
g) Stele [06]

- Q.2 a) Classify various types of plant tissues. [05 ]  
b) Describe the various types of vascular bundles. [05 ]  
c) Differentiate between monocot & dicot leaf. [04 ]

OR

- Q.2 a) Classify stomata. [05 ]  
b) Classify trichomes with examples. [05 ]  
c) Describe the floral diagram of Apocyanaceae. [04 ]

- Q.3 a) Write short notes on types of leaves. [05 ]  
b) Describe the types of placentation. [05 ]  
c) Describe various forms of Corolla. [04 ]

OR

- Q.3 a) Describe the parts of the Androecium with diagrams. [05 ]  
b) Describe the parts of the Gynoecium with diagrams. [05 ]  
c) Describe the floral diagram of Leguminosae. [04 ]



## SECTION II

Q.4 Define the following:

- a) Sessile Leaf b) Starch sheath c) Pericycle d) Perianth e) Calyx f) Corolla  
g) Hypogyny [06]

- Q.5 a) Describe the anatomy of Monocot stem. [05 ]  
b) Write notes on Racemose inflorescence. [05 ]  
c) Classify different types of root systems. [04 ]

OR

- Q.5 a) Write short notes on types of stem. [05 ]  
b) Describe actinomorphic & gamopetalous flowers. [05 ]  
c) Differentiate between Racemose & Cyamose inflorescence. [04 ]

- Q.6 a) Describe the anatomy of Dicot root. [05 ]  
b) Describe the parts of a typical flower. [05 ]  
c) Describe the functions of a) stomata b) Casparian strip. [04 ]

OR

- Q.6 a) Describe the floral formula & diagram of Umbelliferae. [05 ]  
b) Classify leaves based on leaf margins. [05 ]  
c) Differentiate between complete flower & incomplete flower. [04 ]

