

V.P. & R.P.T.P.SCIENCE COLLEGE  
INTERNAL EXAM  
BOTANY-US03CBOT02



(Anatomy, Taxonomy and Plant Physiology)

Date-06/10/2018, Saturday Time: 3.00 p.m.-5.00 p.m.

Marks-50

Q-1 Multiple Choice Questions.

(08)

(i) A parenchymatous cell which stores ergastic substance is\_\_\_\_\_.

- (a) idioblast      (b) phragmoplast      (c) conidioplast      (d) none of these

(ii) Meristematic cells are\_\_\_\_\_.

- (a) mature and densely cytoplasmic      (b) differentiated & vacuolated  
(c) mature & dead      (d) immature & living

(iii) Tepals are found in\_\_\_\_\_.

- (a) Compositae      (b) Papilionaceae      (c) Liliaceae      (d) Annonaceae

(iv) Flower is zygomorphic in\_\_\_\_\_.

- (a) Cruciferae      (b) Malvaceae      (c) Papilionaceae      (d) Solanaceae

(v) The fibre crop occupying the largest area in India is under\_\_\_\_\_.

- (a) Jute      (b) Cotton      (c) Flax      (d) Sisal

(vi) Groundnut in India is mainly cultivated in\_\_\_\_\_.

- (a) Gujarat      (b) Assam      (c) Bihar      (d) Kerala

(vii) Which of the following causes dormancy of seeds?

- (a) seed coats impermeable to water      (b) immaturity of the embryo  
(c) mechanically resistant seed coats      (d) all of above

(viii) Loss of water in the form of water vapour via leaf is known as\_\_\_\_\_.

- (a) transpiration      (b) guttation      (c) respiration      (d) none of these

Q-2 Attempt following (any five). (10)

- (i) Write about collenchyma.
- (ii) Name the complex tissues. Write their functions.
- (iii) Describe the floral characters of Mimaceae.
- (iv) Describe the vegetative characters of Papilionaceae family.
- (v) What is the nutritional importance of pulses? Mention four important pulse crops of India.
- (vi) Write botanical names and families to which these plants belong:  
(a) Wheat (b) Rice
- (vii) Differentiate between: Transpiration-Guttation.
- (viii) Define photosynthesis with equation. Give examples of SDP & LDP plants.

Q-3 Write note on: Meristem. (08)

OR

Q-3 Give a brief note on: Parenchyma. (08)



Q-4 Write the economic importance of : (a) Annonaceae  
(b) Meliaceae (08)

OR

Q-4 Write the characters of Asteraceae. (08)

Q-5 What is beverages? Describe any one. (08)

OR

Q-5 Write notes on: (a) Mustard oil. (04)

(b) Sal. (04)

Q-6 What is photoperiodism? Explain the physiology of photoperiodism in plants and add a note on its significance in agriculture. (08)

OR

Q-6 Write in detail about the differences between C<sub>3</sub> and C<sub>4</sub> plants. (08)

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