

Oct-2013

Seat
No.

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कुंतल - 042

BOTANY PAPER-II (NEW) (23146) BOT-232
Plant Physiology

P. Pages : 2

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figures to the right indicate full marks.
6. Draw neat and labelled diagrams whenever necessary.

1. Attempt any eight.

8

- i) The cell increase in volume when it is placed in
 - a) Hypertonic solution
 - b) Hypotonic solution
 - c) Isotonic solution
 - d) none of these
- ii) Root pressure is due to
 - a) Passive absorption
 - b) Active absorption
 - c) Increased turgidity
 - d) Decrease turgidity
- iii) Protein lecithin theory of absorption of mineral salt was first proposed by
 - a) Lundegarth and Burstorm
 - b) Bennet Clark
 - c) Donnan
 - d) none of these
- iv) Symplastic movement of water takes place through
 - a) the cell wall
 - b) the plasma membrane
 - c) through endodermis
 - d) the casparian strips
- v) Define transpiration.
- vi) What are accessory pigments.
- vii) What is photosynthesis.
- viii) Give site for aerobic respiration.

ix) What is Isotonic solution.

x) Define the motastic.

2. Attempt **any four**.

8

a) Describe the HSIC path way.

b) Describe K^+ pump theory.

c) What is universal solvent.

d) Types of respiration.

e) What is wall pressure.

f) Explain ascent of sap.

3. Attempt **any two**.

8

a) Give the functions of carotenoids.

b) Describe the mechanism of opening and closing of stomata.

c) Give significance of Kreb's cycle.

4. A) Solve **any two**.

6

a) Describe photolysis of water.

b) Write balance sheet of ATP generation in aerobic respiration.

c) What is diffusion ? Explain the phenomenon.

B) What is transpiration.

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5. a) Explain the importance of osmosis in water absorption by root.

8

OR

b) Draw schematic representation of ETS-cycle cycle.
