



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 25.01.2021

CHAPTER: CONTROL & COORDINATION IN LIVING ORGANISMS TOPIC: NASTIC MOVEMENTS

WORKSHEET 4

Choose the correct option:

(1X15=15)

- Nastic movements differ from tropic movements in being
a. Nondirectional b. Movements of variation c. Stimulated by chemicals d. Directional
- Movements of leaves of the sensitive plant, *Mimosa pudica* are due to
a. Seismonasty b. Chemonasty c. Thermonasty d. Hydrotropism
- Movements in the leaf of *Mimosa pudica* occur due to changes in
a. Pulvinus b. pinna c. leaf and leaflets d. petiole and rachis
- Non-directional response to stimuli is shown by plants, the process being known as
a. Tactic movement b. Nastic movement c. Paratonic movement d. Both a & b
- In *Mimosa*, fall in turgor of lower cells occurs due to
a. Gain of water b. Loss of water c. No change in water content d. None of these
- In the Experiment using the Crescograph, which type of chemical was used?
a. HBr b. H₂O c. HCOOH d. HCHO
- The type of response in plants called Nyctinasty is related to
a. Photonasty b. Thermonasty c. Both a & b d. None of these
- Which of the following plant exhibits Nyctinasty?
a. *Medicago* b. *Maranta* c. Both a & b d. Sunflower
- Which of the following temperature change is enough for beginning of opening of *Crocus* flower?
a. Rise of 0.36°C b. Fall of 0.36°C c. Rise of 1°C d. Fall of 1°C
- The type of stimuli to which *Mimosas* shows seismonastic movement is
a. chemical b. Mechanical c. Both a and b d. None of these
- Which one of these following movements is seen in *Nicotiana* flower?
a. Thermonasty b. Photonasty c. Chemonasty d. Seismonasty
- Nastic movement is caused by change in
a. Soil b. Protein c. Rainfall d. Temperature
- Nyctinasty includes
a. Chemonasty b. Photonasty c. Thermonasty d. Both b & c
- Which of the following movement is independent of direction of stimulus?
a. Tactic movement b. Nastic movement c. Paratonic movement d. Both a & b
- Flower of *Oenothera* exhibits
a. Thermonasty b. Photonasty c. Chemonasty d. Seismonasty

-Debjani Chakraborty