



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 20.04.2020

CHAPTER: CONTROL & COORDINATION IN LIVING ORGANISMS **TOPIC: SENSITIVITY & RESPONSE**
IN PLANTS

WORKSHEET 12

Choose the correct option:

(1X15=15)

1. Which of the following is not the physical factor acting as stimulus?
a. Temperature b. Gases c. Light d. Moisture
2. Stimuli for an organism can be
a. Physical factor b. Chemical signal c. Both a and b d. None of these
3. The stimulus that brings about excretion is
a. Internal stimulus b. External stimulus c. Physical factor d. Both b & c
4. Which of the following is a harmful stimulus in general?
a. Illuminated part of water b. acidic soil c. Both a & b d. None of these
5. The ability to detect a change in the environment by an organism is called
a. Response b. Stimulus c. Sensitivity d. Potential
6. Which of the following shows positive response towards light?
a. *Chlamydomonas* b. Bug moving towards light c. Both a & b d. None of these
7. Locomotion is exhibited by
a. Unicellular green algae b. Colonial green algae c. Both a and b d. None of these
8. Growth movement in roots of plants in response to a stimulus is
a. very slow b. can be detected easily c. Both a and b d. None of these
9. Plants exhibit turgor movement in response to
a. Electrical shock b. Mechanical shock c. Both a & b d. None of these
10. Growth movement due to touch is shown by
a. Tendril of pea b. Tendril in vine c. Both a & b d. None of these
11. Movement due to osmotic stress is shown by
a. *Mimosa* b. *Desmodium gyrans* c. *Chlamydomonas* d. None of these
12. Crescograph used by Acharya J.C. Bose showed
a. Rate of growth of plant b. Magnified plant growth c. response to varied stimuli d. All of these
13. Acharya J.C. Bose showed drooping & retraction movement in *Mimosa* by applying electric shock of
a. 1.3 volts b. 1 volt c. 0.5 volt d. 0.1 volt
14. Which of the following brings about modification of apical meristem to floral meristem?
a. Gibberellin b. Florigen c. Both a & b d. None of these
15. The response of growth of root usually away from light is called
a. Phototropism b. Skototropism c. Thigmotropism d. Chemotropism

-Debjani Chakraborty