



# INDIAN SCHOOL NIZWA - WORKSHEET

## BIOLOGY

### CH-15- PLANT GROWTH AND DEVELOPMENT

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: XI-A

- 1 List the uses of Auxin.
2. Briefly describe a) Plasticity b) Abscission
3. The role of ethylene and abscisic acid is both positive and negative. Justify the statement
- 4 Identify the gaseous plant hormone.
- 5 3 Describe its actions in plants. entify the gaseous plant hormone Describe its actions in plants
- 6 Define parthenocarpy. Name the plant hormone used to induce parthenocarpy.
- 7 What would be expected to happen if:
  - a) GA3 is applied to rice seedlings.
  - b) Dividing cells stop differentiating
  - c) A rotten fruit gets mixed with unripe fruits.
  - d) You forgot to add cytokinin to the culture medium e) Induce immediate stomatal closure in leaves
- 8 5 Which one of the plant growth regulators would you use if you are asked to:
  - a) Induce rooting in a twig
  - b) Quickly ripen a fruit
  - c) Delay leaf senescence
  - d) Induce growth in axillary buds
  - e) Bold a rosette plant
- 9 Abscisic acid is also known as stress hormone. Why?
- 10 What do you understand by Photoperiodism and Vernalisation? Describe their significance
- 11 Define differentiation, development, re differentiation, dedifferentiation, determinate growth, growth rate.
- 12 What are the various phases of growth?
- 13 What are the various conditions needed for growth?
- 14 Describe briefly (a) auxins (b) gibberlins (c) cytokinins (d) ethylene (e) abscissic acid
- 15 What are Long day plants, Short day plants and Day neutral plants?
- 16 Describe briefly (a) arithmetic growth (b) geometric growth (c) sigmoid growth curve.
- 17 Name the fungus from which gibberellins were extracted.
- 18 Who discovered auxins, gibberellins and cytokinins?



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