

**BIOLOGY**

71. Auxin can be bioassayed by:
- (1) Hydroponics
  - (2) Potometer
  - (3) Lettuce hypocotyl elongation
  - (4) *Avena* coleoptile curvature
72. What causes a green plant exposed to the light on only one side, to bend toward the source of light as it grows?
- (1) Green plants seek light because they are photoperiodic.
  - (2) Light stimulates plant cells on the lighted side to grow faster.
  - (3) Auxin accumulates on the shaded side, stimulating greater cell elongation there.
  - (4) Green plants need light to perform photosynthesis.
73. Typical growth curve in plants is:
- (1) Linear
  - (2) Stair-steps shaped
  - (3) Parabolic
  - (4) Sigmoid
74. Which one of the following growth regulators is known as 'stress hormone'?
- (1) Abscisic acid
  - (2) Ethylene
  - (3)  $GA_3$
  - (4) Indole acetic acid
75. A few normal seedlings of tomato were kept in a dark room. After a few days they were found to have become white- coloured like albinos. Which of the following terms will you use to describe them?
- (1) Mutated
  - (2) Embolised
  - (3) Etiolated
  - (4) Defoliated
76. Dr. F. Went noted that if coleoptile tips were removed and placed on agar for one hour, the agar would produce a bending when placed on one side of freshly-cut coleoptile stumps. Of what significance is this experiment?
- (1) It made possible the isolation and exact identification of NAA.
  - (2) It is the basis for quantitative determination of small amounts of growth-promoting substances.
  - (3) It supports the hypothesis that IAA is auxin.
  - (4) It demonstrated polar movement of auxins.
77. The pineapple which under natural conditions is difficult to blossom has been made to produce fruits throughout the year by application of:
- (1) IAA, IBA
  - (2) NAA, 2, 4-D
  - (3) Phenyl acetic acid
  - (4) Cytokinin
78. During seed germination, its stored food is mobilized:
- (1) Cytokinin
  - (2) ABA
  - (3) Gibberellin
  - (4) Ethylene
79. Vernalisation stimulates flowering in:
- (1) zamikand
  - (2) turmeric
  - (3) carrot
  - (4) ginger
80. Which one of the following generally acts as an antagonist to gibberellins?
- (1) Zeatin
  - (2) Ethylene
  - (3) ABA
  - (4) IAA