Pradeep Eshwar

131. Which of the following represents the correct sequence of the development process in a plant cell? (1) Cell division  $\rightarrow$  Elongation  $\rightarrow$  Senescence  $\rightarrow$  Maturation (2) Meristematic cell  $\rightarrow$  Maturation  $\rightarrow$  Elongation  $\rightarrow$  Death (3) Cell division  $\rightarrow$  Elongation  $\rightarrow$  Maturation  $\rightarrow$  Plasmatic growth (4) Cell division  $\rightarrow$  Differentiation  $\rightarrow$  Maturation  $\rightarrow$  Senescence 132. In which of the following process, the cell loose their protoplasm to form tracheary element? (1) Dedifferentiation (2) Vernalisation (3) Differentiation (4) Plasticity 133. Assertion (A) : Auxins help to prevent fruits and leaves drop at early stages Reason (R) : Auxins promote the abscission of older mature leaves and fruits (1) Both (A) and (R) are correct, and (R) is the correct explanation of (A). (2) Both (A) and (R) are correct, and (R) is not the correct explanation of (A). (3) (A) is correct, but (R) is not correct (4) Both (A) and (R) are incorrect. 134. Which of them is not an extrinsic factor for plant growth and development? (2) Temperature, CO<sub>2</sub> (1) Light,  $O_2$ (3) Nutrient, water (4) Growth regulator and genetic factor 135. Select the pair that consists of plant growth promoters only. (1) Auxins and cytokinins (2) Gibberellins and ABA (3) Ethylene and ABA (4) All of these **SECTION-B** 136. Essential requirement for seed germination is  $(1) O_{2}$  and light (2) H<sub>2</sub>O and O<sub>2</sub> (3) H<sub>2</sub>O and high temperature (4) Scarification and vernalisation 137. Assertion (A): Cytokinins are antisenescent Reason (R): Cytokinin help in nutrient mobilisation which helps in the delay of senescence (1) Both (A) and (R) are correct, and (R) is the correct explanation of (A). (2) Both (A) and (R) are correct, and (R) is not the correct explanation of (A). (3) (A) is correct, but (R) is not correct (4) Both (A) and (R) are incorrect. 138. Which one of the following acids is a derivative of carotenoids ? (1) Indole-3 -acetic acid (2) Gibberellic acid (3) Abscisic acid (4) Indole butyric acid 139. Maximal size in terms of wall thickening and protoplasmic modification are achieved by (1) Cells of divisional phase (2) Cells of maturation phase (3) Cells of elongation phase (4) Cells of meristematic tissue. 140. The exponential growth can be expressed as  $W_1 = W_0 e^{rt}$ . What is 'r' in the expression? (1) Relative growth rate and depends on final size (2) Absolute growth rate & depends on initial size (3) Relative growth and also referred to as efficiency index (4) Absolute growth rate & depends on efficiency index