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- (i) RNA polymerase-I
  - (ii) RNA polymerase II
  - (iii) RNA polymerase-III
191. (d) When the set point of hypothalamus is disturbed by high temperature, it stimulates vasodilation and sweating while in low temperature there is vasoconstriction and shivering
  192. (b) The two chains are antiparallel, one aligned in  $5' \rightarrow 3'$  direction the other in  $3' \rightarrow 5'$  direction.
  193. (d) Crocodile belongs to reptilia class which has four chambered heart. Lemur teeth are embedded in the sockets of two which is known as there don't. In Obelia polyps reproduce medusae asexually and medusae form the polyps sexually. Such alternation of asexual and sexual phases in the life cycle of Obelia is called metagenesis.
  194. (d) The cytoplasm immediately surrounding the nucleus is loaded with proteins and machinery and is called perikaryon. Dendrites are usually shorter, tapering and much branched processes which may be one to several. These are only present in nerve cells.
  195. (a) Hybrid vigour is also called heterosis which is measured in terms of size, growth rate / field number, other characters. Hybrid vigour increases vigour and fertility. It is exhibited by crossing of two inbred parental lines. It is best maintained in vegetatively producing crops because of genetic recombinations.
  196. (d) Newcastle disease (ND) is a highly contagious, generalised virus disease of domestic poultry and wild birds characterised by gastro-intestinal, respiratory and nervous signs.
  197. (a) The Pr form: It absorbs light between 660 to 680nm and absorbs at a peak of 666 nm. It is the form synthesized in dark-grown seedlings. When Pr absorbs red light, it is converted to the Pfr form
  198. (b) Stone flies are not bio indicators. Bioindicators provide a range of techniques to assess the impacts of air pollution from reactive nitrogen (NO<sub>x</sub>) compounds on statutory nature conservation sites. They complement physical monitoring of atmospheric concentrations and deposition and risk assessment based on the critical loads approach to provide a site-based information on atmospheric N concentrations, deposition and/or ecological impacts.
  199. (a) It is commonly called as 'emergency hormone' or 3F-hormone (For fear, fight & flight). Its secretion is regulated by SNS, and not by pituitary as in case of adrenal cortex. It stimulates sweating, heart beat and breathing rate. It causes the dilation of coronary artery (supplying blood to the heart muscles), bronchioles (for increasing inspiratory volume) and pupil (for better vision)
  200. (d) The effect of gibberellins had been known in Japan since early 1800 where certain rice plants were found to suffer from bakane or bakanae (foolish seedling) disease. Such rice plants were thin, pale green, spindle-shaped, longer by 50% than the healthy plants, and were sterile.