

141. A probe which is a molecule used to locate specific sequences in a mixture of DNA or RNA molecules could be
- (1) A single stranded RNA
  - (2) A single stranded DNA
  - (3) Single stranded RNA or Single stranded DNA
  - (4) Can be ssDNA but not ssRNA
142. Which of the following is not an application of PCR?
- (1) Detection of gene mutation
  - (2) Molecular diagnosis
  - (3) Purification of isolated protein
  - (4) Gene amplification
143. Bt toxin is obtained from a prokaryote is
- (1) Intracellular lipids
  - (2) Intracellular crystalline protein
  - (3) Extracellular crystalline carbohydrate
  - (4) Lipid
144. It is beneficial to have insulin by biotechnology, because
- (1) It is less expensive
  - (2) It is non allergic
  - (3) It can be produced in mass
  - (4) All of the above
145. GEAC stands for
- (1) Genome engineering action committee
  - (2) Ground environment action committee
  - (3) Genetic engineering approval committee
  - (4) Genetic and environment approval committee
146. Early detection of a disease is possible by
- (1) PCR
  - (2) Gene therapy
  - (3) ELISA
  - (4) Both (1) and (3)
147. Exploitation of biological resources without proper authorization is called
- (1) Bioethics
  - (2) Biowar
  - (3) Biopatent
  - (4) Biopiracy
148. Bt cotton is not
- (1) A GM plant
  - (2) An insect resistant plant
  - (3) A bacterial gene expressing system
  - (4) Resistant to all pesticides
149. Statement 1: Correction of a genetic defect involves delivery of a normal gene into the individual or embryo to take over the function of and compensate for the non functional gene  
Statement 2: The first clinical gene therapy was given in 1990 to a 4 year old girl with ADA deficiency.
- (1) Both statements are correct
  - (2) Statement 1 is correct and II is incorrect
  - (3) Statement I is incorrect and II is correct
  - (4) Both statements are incorrect

150. Statement 1:there are an estimated 200,000 varieties of rice in India alone  
Statement 2:07 documented varieties of basmati are grown in India
- (1)Both statements are correct                      (2)Statement 1 is correct and II is incorrect  
(3)Statement I is incorrect and II is correct      (4)Both statements are incorrect