



- MCQ 4 Choose the correct statement for genomic libraries.
- (A) Genomic libraries include the representation of the whole genome of the organism
- (B) Sequences such as telomeres are also represented
- (C) Telomeres can be readily cloned
- (D) None of above
- MCQ 5 In gel electrophoresis fragments are separated on basis of
- (A) Size
- (B) Charge
- (C) Both A and B
- (D) Temperature sensitivity
- MCQ 6 Why is a probe labeled ?
- (A) Improve visibility
- (B) Improve stability
- (C) Improve location identification
- (D) Improve binding capability
- MCQ 7 Radiolabelling is generally brought about by addition of radioactive phosphorus
- \_\_\_\_\_
- (A) True
- (B) False
- MCQ 8 Which DNA is restricted to making a genomic library?
- (A) Genomic
- (B) Plasmid
- (C) Phage
- (D) Plant
- MCQ 9 During electrophoresis denaturation of the double stranded DNA is brought about by \_\_\_\_\_
- (A) Treatment with alkali
- (B) Application of current
- (C) Treatment with EtBr
- (D) Application of heat
- MCQ 10 *Agrobacterium tumefaciens* is a
- (A) a) Gram negative soil bacterium causing crown gall disease in dicot
- (B) Gram negative soil bacterium causing crown gall disease in monocots
- (C) Gram positive soil bacterium causing crown gall disease in dicots
- (D) Gram positive soil bacterium causing crown gall disease in dicots
- MCQ 11 Which of the following statements are true for *agrobacterium* mediated gene transfer
- (A) Vir genes are essential for gene transfer
- (B) T-DNA borders are essential for gene transfer
- (C) both a and b
- (D) none of these
- MCQ 12 Which enzyme is involved in the synthesis of the DNA over an RNA template?
- (A) DNA polymerase
- (B) Reverse transcriptase
- (C) Klenow fragment
- (D) RNA polymerase
- MCQ 13 Nick translation is done by
- (A) DNA polymerase I
- (B) DNA polymerase II
- (C) DNA Ligase
- (D) None
- MCQ 14 Which of the following bacterium is considered as 'natural genetic engineer'
- (A) *Agrobacterium tumefaciens*
- (B) *Psuedomonasputida*
- (C) *Thermusaquaticus*
- (D) *Agrobacterium radiobactor*

MCQ 15 The digestion of mRNA during RT – PCR is carried out by the enzyme

(A) Exonuclease

(B) RNase H

(C) Bal 31

(D) Endonuclease

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