

- b) I and III
 c) I, II and III
 d) None of the above
13. Process of formation of RNA from DNA is called
 a) Transduction b) Transcription c) Transformation d) Translation
14. Which of the following would not be used in preparing recombinant DNA?
 a) Plasmids b) Phages
 c) Restriction enzymes d) DNA polymerase III
15. Which one of the following bacteria has found extensive use in genetic engineering work in plants?
 a) *Agrobacterium tumefaciens* b) *Clostridium septicum*
 c) *Xanthomonas citri* d) *Bacillus coagulans*
16. Which of the following components are used in gel electrophoresis?
 I. Ethidium bromide
 II. Restriction endonuclease
 III. Agarose
 IV. UV radiation
 Choose the correct option
 a) I and II b) I and III c) I, II and IV d) I, II, III and IV
17. What is the first step in Southern Blotting technique?
 a) Isolation of DNA from a nucleated cell such as the one from the scene of crime
 b) Denaturation of DNA on the gel for hybridization with specific probe
 c) Production of group of genetically identical cells
 d) Digestion of DNA by restriction enzyme
18. The most thoroughly studied of the known bacteria-plant interaction is the:
 a) Plant growth simulation by phosphate-solubilising bacteria
 b) Cyanobacterial symbiosis with some aquatic ferns
 c) Gall formation on certain angiosperms by *Agrobacterium*
 d) Nodulation of *Sesbania* stems by nitrogen fixing bacteria
19. Microorganisms can be grown in the bioreactor by
 a) Support growth system b) Agitated growth system
 c) Suspended growth system d) Both (a) and (b)
20. In Northern blotting RNAs are separated by gel electrophoresis and the RNA bands are transferred onto a membrane of:
 a) Diazobenzyl oxymethyl b) Diazobenzene
 c) Diazobromine d) None of the above

PE