







- 16) The expanded form of pBR in pBR322 is \_\_\_\_\_.
- A) Plasmid Boliver and Rodriguez
  - B) Plasmid Baltimore and Rodriguez
  - C) Plasmid bacterial recombination
  - D) Plasmid bacterial replication
- 17) The kappa contains a defective prophage whose induction leads to the production of \_\_\_\_\_ bodies.
- A) R
  - B) K
  - C) Mu
  - D) alpha
- 18) ddNTP is different from dNTP in having \_\_\_\_\_
- A) H in place of OH in 3 position of dNTP
  - B) OH in place of H in 3 position of dNTP
  - C) OH in place of H in 2 position of dNTP
  - D) CH<sub>3</sub> in place of H in 3 position of dNTP
- 19) Type II restriction enzyme cuts the DNA \_\_\_\_\_
- A) Within the recognition sequence
  - B) 100-1000 nucleotides away from the recognition sequence
  - C) 27-30 nucleotides away from the recognition sequence
  - D) Randomly
- 20) λEMBL4 is \_\_\_\_\_ vector.
- A) insertional
  - B) replacement
  - C) cosmid
  - D) plasmid



- 26)** A type of cell culture that can reproduce for an extended number of generations and is used to support viral replication is a \_\_\_\_\_.
- A) Primary cell culture
  - B) Secondary cell culture
  - C) Continuous cell line
  - D) Primary and Secondary cell culture
- 27)** \_\_\_\_\_ is an example of DNA viruses.
- A) Retrovirus
  - B) Enterovirus
  - C) Rhabdovirus
  - D) Adenovirus
- 28)** The time from adsorption of a bacteriophage to release of newly synthesized bacteriophage is generally \_\_\_\_\_.
- A) 1-5 minutes
  - B) 20-40 minutes
  - C) 1-4 hours
  - D) 6-24 hours
- 29)** Breast cancer is an example of \_\_\_\_\_.
- A) Lymphoma
  - B) Carcinoma
  - C) Leukemia
  - D) Sarcoma
- 30)** A key event in immortalization is the \_\_\_\_\_.
- A) stimulation of DNA
  - B) inhibition of DNA polymerase
  - C) inhibition of telomerase
  - D) reactivation of telomerase
- 31)** In one step growth curve experiment \_\_\_\_\_ period is the time period from lysis initiation to end.
- A) latent
  - B) burst
  - C) eclipse
  - D) lag

- 32) The genome of T4 phage shows \_\_\_\_\_ which helps in circularization of genome during its multiplication.
- A) terminal redundancy                      B) palindromy  
C) inverted repeatition in SS              D) inverted repeatition in DS
- 33) The value of Secchi depth (metres) is usually low in case of \_\_\_\_\_ lakes.
- A) oligotrophic  
B) mesotrophic  
C) eutrophic  
D) both oligotrophic and mesotrophic
- 34) The waste generated by sugar industry includes \_\_\_\_\_.
- A) Molasses                                      B) Pressmud  
C) Bagassee                                      D) All of these
- 35) In \_\_\_\_\_ lakes quantity of nutrients is very low.
- A) hypereutrophic                              B) eutrophic  
C) mesotrophic                                  D) oligotrophic
- 36) As per standards prescribed by MPCB, the treated wastewater intended to discharge into inland surface water should have COD less than \_\_\_\_\_ mg/l.
- A) 150    B) 250  
C) 350    D) 450
- 37) Biodegradable organic matter in sewage is measured by \_\_\_\_\_ test.
- A) MPN    B) Flask  
C) BOD    D) COD



















- 86)** Blocking of enzyme action by blocking its active sites is\_\_\_\_\_.
- A) Feedback inhibition                      B) Allosteric inhibition  
C) Competitive inhibition                    D) Non-competitive inhibition
- 87)** The ‘Lock and Key’ theory of enzyme action was put forward by\_\_\_\_\_.
- A) Koshland                                      B) Fischer  
C) Kuhne    D) Arrhenius
- 88)** The location of Pentose phosphate is \_\_\_\_\_.
- A) cell membrane                              B) Cytosol  
C) Ribosomes                                    D) Mitochondria
- 89)** The ideal C: N ratio for vermicomposting is\_\_\_\_\_.
- A) 30 : 1    B) 90 : 1  
C) 60 : 1    D) 20 : 1
- 90)** The valency of Nitrogen in the form of Nitrate is \_\_\_\_\_.
- A) +5    B) +3  
C) +4    D) +6







**Rough Work**

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