- 1. When the genotype of an organism is improved by the addition of foreign gene, the process is called (a) Tissue culture
 (b) Genetic diversity
 (c) Genetic engineering
 (d) Plastic surgery
- 2. The tumour indusing capacity of Agrobacterium tumaefaciens is located in large extrachromosomal plasmid and called -
- (a) Ti plasmid
- (b) Ri plamid
- (c) Lambda phage
- (d) Plasmid PBR 322
- 3. Tag poymerase which is used for amplification of DNA related with:
- (a) Hybridoma technique
- (b) PCR technique
- (c) Gene doning
- (d) r DNA technology
- 4. Which one of the following has found extensive use in genetic engineering work in plants
- (a)Bacilluscoagulens
- (b)Agrobacteriumtumefaciens.
- (c)Clostridiumsepticum
- (d)Xanthomonascitri
- 5. The Ti plasmid, is often used for making transgenic plants. This plasmid is found in : -
- (a) Yeast as a 2 tim plasmid
- (b)Azotobacter
- (c) Rhizobium of the roots of leguminous plants
- (d)Agrobacterium
- **6.** PCR Technique is used in : -
- (a) Production of transgenic microbes
- (b) Production of geneticaly modified food
- (c) Forensic investigation
- (d) r DNA technique
- 7. Function of restriction endonuclease enzyme is:
- (a) Useful in genetic engineering
- (b) Protects the bacterial DNA against foreign DNA
- (c) Helpful in transcription
- (d) Helpful in protein synthesis
- **8.** A bacterium modifies its DNA by adding methyl groups to the DNA, It does so to : -
- (a) Clone its DNA
- (b) Be able to transcribe many genes simultaneously
- (c) Turn its gene on
- (d) Protect its DNA from its own restriction enzyme
- **9.** More advancement in genetic engineering is due to : -
- (a) Restriction endonuclease
- (b) Reverse transcriptase

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C. antiviral D. anticancer

(a) A, B (b) B, C (c) C, D (d) A, B, C, D

27. Column I Column II

- 1. Biopiracy A. Gene therapy
- 2. Retroviral vector B. Ellegal removal of biological

Materials

- 3.Biopatent C. Right granted for biological entities
- 4. Kohler and Milstein D. Monoclonal antibody
- (a) I B, II A, III D, IV C
- (b) I B, II A, III C, IV D
- (c) I B, II C, III A, IV D
- (d) I D, II A, III B, IV C
- 28. Production of a human protein in bactena by genetic engineering is possible because
- (a) Bacterial cell can carry out the RNA splicing reactions
- (b) The mechanism of gene regulation is identical in humans and bacteria
- (c) The human chromosome can replicate in bacterial cell
- (d) The genetic code is universal
- 29. Which of the following tools of recombinant DNA technology is incorrectly paired with its use -
- (a)restriction enzyme Production of R Γ LPs
- (b) DNA b · gase that cuts DNA, creating the sticky ends
- (c) DNA polymerase used in a polymerase chain reaction to amplify section of DNA
- (d) reverse transcriptase production of cDNA from mRNA
- **30.** An example of gene therapy is
- (a) Production of injectable Hepatitis B vaccine
- (b) Production of vaccines in food crops like potatoes which can be eaten
- (c) Introduction of gene for adenosine deaminase in persons suffering from

severe combined immuno - deficiency (SCID)

(d) Production of test tube babies by artificial insemination and implantation of fertilized eggs

NEET/JEE MAIN PRACTICE PAPER 2024-2025 www.neetjeenotes.com **1.** (c) **2.** (a) **3.** (b) **4.** (b) **5.** (d) **6.** (c) **7.** (b) **8.** (d) **9.** (a) **10.** (d) **11.** (a) **12.** (b) **13.** (b) **14.** (c) **15.** (d) **16.** (b) **17.** (b) **18.** (b) **19.** (b) **20.** (b) **21.** (b) **22.** (c) **23.** (b) **24.** (b) **25.** (d) **26.** (c) **27.** (b) **28.** (d) **29.** (b) **30.** (c) BY SWADHIN SIR