



BIOLOGY

BOOKS - SARAS PUBLICATION

PRINCIPLES AND PROCESSES OF BIOTECHNOLOGY

Example

1. Define zymology.



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2. What is a bioreactor ?



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3. Define upstream process.



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4. Define downstream process.



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5. What are primary metabolites ? Give example.



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6. What are secondary metabolites?



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7. What are restriction enzymes or molecular scissors?



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8. What is symmetric cuts?



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9. What are DNA ligases?



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10. What is vector?



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11. Define origin replication.



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12. What is selectable marker?



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13. What are transposons?



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14. What are the walking genes (or) jumping genes ?



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15. What are expression vectors.



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16. What is cosmid.



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17. What is competent host?



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18. What is chemical mediated gene transfer?



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19. What is microinjection method?



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20. Define electroporation method of gene transfer.



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21. Explain the liposome mediated method of gene transfer?



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22. Write a brief note on Biolistics.



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23. What is antibiotic resistant markers ?



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24. Define Electrophoresis



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25. Define blotting technique.



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26. Explain Southern blotting techniques .



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27. What is Northern blotting ?



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28. What is Western blotting?



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29. What is RNA interference ?



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30. 'Bt brinjal'



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31. What is DMH?



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32. Find out from internet what is golden rice.



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33. What is PLA?



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34. What is green fluorescent protein?



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35. Define endonucleases.



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36. Define genome.



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37. Define phagemid.



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38. What is restriction map?



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39. Define shuttle vector.



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40. What is Taq polymerase?



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41. Define bioleaching.



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42. What is Phytoremediation?



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43. What is biotechnology ?



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44. Write a short note on conventional biotechnology.



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45. Define Genetics.



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46. Define molecular biology.



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47. Define bioinformatics.



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48. Define biophysics.



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49. What is fermentation ?



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50. What are single cell proteins? List out its uses ?



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51. What is meant by recombinant DNA technology ?



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52. What is PCR?



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53. What is direct gene transfer?



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54. What is indirect gene transfer?



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55. What is screening of combinations?



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56. Comment of ELISA .



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57. What do you mean by DNA probes ?



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58. Define Transfection.



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59. What is meant by genome sequencing ?



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60. Define transcription and name the enzyme involved in this process.



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61. What is polyactic acid?



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62. What is GFP?



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63. Define Biopharming . Give its uses .



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64. Write a note on bioprospecting .



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65. Define the term biopiracy. Explain the issue of Basmati rice patent in this context.



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66. What are palindromic repeats ?



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67. What is a plasmid?



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68. Define blotting technique.



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69. What is barcode in genetics?



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70. What is genetics?



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71. What is genome editing?



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72. Write notes on FlavrSver tomato .



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73. Compare the various types of blotting techniques.



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