



BIOLOGY

BOOKS - SARAS PUBLICATION

PRINCIPLE AND PROSESSES OF BIOTECHNOLOGY

Exercise

1. EcoRI cleaves DNA at

A. AGGGTT

B. GTATATC

C. GAATTC

D. TATAGC

Answer:



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2. Consider the following statements :

i. Recombinant DNA technology is popularly known as genetic engineering is a stream of

biotechnology which deals with the manipulation of genetic materials by man invitro

ii. pBR322 is the first artificial cloning vector developed in 1977 by Boliver and Rodriguez from E.coli plasmid.

iii. Restriction enzymes belong to a class of enzymes called nucleases . Choose that correct option regarding above statements

A. I and II

B. I and III

C. II and III

D. I,II,and III

Answer:



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3. In which techniques Ethidium Bromide is used?

A. Southern Blotting techniques

B. Western Blotting techniques

C. Polymerase chain Reaction

D. Agarose Gel Electrophoresis

Answer:



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4. 5-Bromo-4indolu- β -D-galactopyranoside is called

A. X-gluc

B. Y-gal

C. Z-gal

D. XY-gal

Answer:



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5. Bt brinjal is created by inserting a crystal protein gene called

A. Cry

B. Cry IAC

C. Cry IAD

D. Cry AB

Answer:



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6. What are the enzymes you can used to cut terminal end and internal phospho di ester bond of nucleotide sequence?



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7. Name the chemicals used in gene transfer.



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8. Write the risk of genetically modified food.



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9. Is there any possibility to transfer a suitable desirable gene to host plant without vector?

Justify your answer.



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10. What are the main features that are required to facilitate cloning into a vector ?



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11. Define Biopharming . Give its uses .



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12. You are working in a biotechnology lab with a bacterium namely E.coil. How will you cut the nucleotide sequence? Explain it.



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13. What do you know about the word pBR332?



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14. What is bioremediation?

Give some examples of bioremediation.



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15. Name and describe the blotting technique which is used to separate the RNA molecule .



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16. Name and explain the plasmid which is found in *Agrobacterium tumefaciens*.



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17. What are restriction enzymes or molecular scissors?



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18. What are restrictions enzyme. Mention their type with role in biotechnology.



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19. What do you mean by DNA probes ?



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20. Explain the replica plating technique .



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