

# Download File PDF Biotechnology Questions And Answers

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**Biotechnology Questions And Answers**

6. A bacterium has a genome of size 6 million base pairs. If the average rate of DNA synthesis is 1000 base pairs/second, the time taken (in minutes) for replication of the genome will be \_\_\_\_  
Key: (100)
7. An enzyme catalyses a reaction by  
(A) Decreasing the energy of the substrate.  
(B) Decreasing the activation energy of the reaction.  
(C) Decreasing product stability.  
(D) Increasing the activation barrier of the reaction.  
Key: (B)
8. Which one of the following techniques can be used to determine the structure of a 15 kDa globular protein at atomic resolution?  
(A) Raman spectroscopy (B) IR spectroscopy  
(C) UV spectroscopy (D) NMR spectroscopy  
Key: (B)
9. In eukaryotes, cytokinesis is inhibited by  
(A) Cycloheximide (B) Vinorelbine  
(C) Nocodazole (D) Colchicine  
Key: (A)
10. Which one of the following mechanisms is used by human pathogens to evade host immune responses?  
(A) Somatic hypermutation (B) Antibody production  
(C) Antigenic variation (D) Complement activation  
Key: (C)
11. An enzymic reaction exhibits Michaelis-Menten kinetics. For this reaction, on doubling the concentration of enzyme while maintaining  $[S] \gg [E_0]$   
(A) Both  $K_m$  and  $V_{max}$  will remain the same.  
(B)  $K_m$  will remain the same but  $V_{max}$  will increase.  
(C)  $K_m$  will increase but  $V_{max}$  will remain the same.  
(D) Both  $K_m$  and  $V_{max}$  will increase.  
Key: (B)
12. The surface area [ $m^2$ ] of the largest sphere that can fit into a hollow cube with edges of length 1 meter is \_\_\_\_  
Given data:  $\pi = 3.14$   
Key: (3.14)