BIOLOGY

NEET & AIIMS

Mocktest-04-zoology

Example

1. Guanosine is a

A. Nucleoside

B. Nilrogen base

C. Nuclootide

D. Pyrimidine

Answer: A

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2. Which of tho following bond is present between the Sugar and nitrogen base of a nucleoside?

A. Glycosidic bond

B. Ester bond

C. Phosphodiester bond

D. Hydrogen bond

Answer: A

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3. The pith of B-DNA is

A. $34A^{\circ}$

B. $0.34nm$

C. $0.34A^{\circ}$

D. $3.4A^{\circ}$

Answer: A

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4. Which of the following is an incorrect statement?

A. The two strands of DNA helx are antiparallel

B. The two strands are held together by glycosidic bond between bases

C. Sugar and phosphate form the backbone of DNA

D. There are 10 base pairs in one turn of helical B-DNA

Answer: B

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5. Which of the following is an example of Purine bases

A. Aderine

B. Cytosine

C. Thymine

D. Uracil

Answer: A

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6. Whith of thoe follozing DNA is left handed?

A. B-DNA

B. A-DNA

C. D-DNA

D. Z-DNA

Answer: D

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7. Chargaff's base complimentarity rulos aro applicable to

A. dsDNA

B. mRNA

C. ssDNA

D. rRNA

Answer: A

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8. Which of the follcwing typns af RNA is the most abundant in the body?

A. mRNA

B. rRNA

C. tRNA

D. sRNA

Answer: B

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9. Which of the following is tho energy currency of cells?

A. ATP

B. ADP

C. DNA

D. RNA

Answer: A

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10. Which of the following typos of RNA carries the information for the syrithasis of protoins?

A. mRNA

B. tRNA

C. rRNA

D. sRNA

Answer: A

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11. Which structuro of protoin is roquirod for attaining enzymatic activity?

A. Primary strunture

B. Secondary structure

C. Tertiary sthucture

D. Quaternary stuchure

Answer: C

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12. In the presence of an enzyme, the activation energy of a reaction

A. Increases

B. Decreases

C. Remains same

D. Cannot be predicted

Answer: B

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13. According to Lock and Key Hypothesis

A. Both enzyme and substrate molecules have specific geometrical shapes

B. Only enzymes have a fixed shape

C. Only substrates have a fixed shape

D. Only products have specific shape which is compatible to the enzyme's active site

Answer: A

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14. According to the Induced Fit Hypothesis, which part of the enzyme's active site comes opposite to the substrate to catalyse changes in it?

A. Buttressing group

B. Catalytic group

C. Allosteric group

D. Either buttressing or catalytic group

Answer: B

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15. Digestive enzymes are

A. Hydrolases

B. Lyases

C. Dehydrogenases

D. Transferases

Answer: A

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16. Which of the following will not negatively affect the activity of an enzyme?

A. Higher temperature than optimum

B. Lower temperature than optimum

C. Lower pH than optirmum

D. Presence of coenzyme

Answer: D

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17. Protein portion of an enzyme to which a co-factor binds is known as

A. Apoenzyme

B. Isoenzyme

C. Holoenzyme

D. Proenzyme

Answer: A

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18. Which of the following is not true w.rt. K?

A. It indicates the substrate concentration at which half of the maximum velocity of an enzyme catalyzed reaction is attained

B. is not a measure of efficiency of enzyme

C. Value of K of an enzyme remains unchanged in presence of a non competitive inhibitor

D. Allosteric enzymes do not show the typical Michaelis Menten kinetics

Answer: B

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19. In which of the following given examples, the value of Vmax changes while the K, value remains same?

A. Inhibition of succinate dehydrogenase by malonate

B. Inhibition of alcohol dehydrogenase to treat methanol poisoning

C. Inhibition of cytochrome oxidase by cyanide

D. Inhibition of folic acid synthesis in bacteria by sulpha drugs

Answer: C

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20. In which of the following modes of inhibition, there is no direct interaction between inhibitors and active site of enzyme?

A. Competitive inhibition predicted

B. Feedbock inhibition have

C. Non-competitive inhibition

D. Both (2)&(3)

Answer: D

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21. Which of the following is a co-factor and tightly bound to the apoenzyme?

A. Coenzyme

B. Prosthetic group

C. Zymogens

D. Isoenzymes

Answer: B

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22. Which of the following graphs shows the correct description of effect of pH on enzyme activity?

A. 

B. 

C. 

D. 

Answer: C

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