



# PHYSICS

## BOOKS - SAI PHYSICS (TELUGU ENGLISH)

### BIOMOLECULES

**Mcqs**

1. The amino acid containing indole part is

A. Tryptophan

B. Tyrosine

C. Proline

D. Methinoine

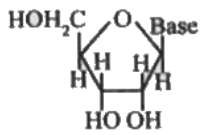
**Answer: A**



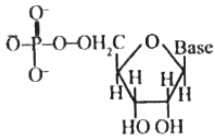
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**2. Identify the nucleoside form the following.**

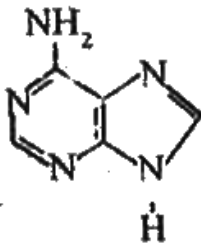
A.



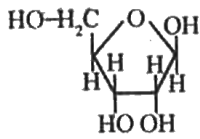
B.



C.



D.



**Answer: A**



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3. Lactose is disaccharide of

A.  $\alpha$ -D-glucose-glucose and  $\alpha$ -D-fructose

B.  $\beta$ -D--glucose and  $\beta$ -D-galactose

C.  $\alpha$ -D-glucose-glucose and  $\beta$ -D-ribose

D.  $\beta$ -D--glucose and  $\beta$ -D-galactose

**Answer: B**



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4. The charring of sugar takes place when treated with concentrated  $H_2SO_4$ . What is the type of reaction involved in it?

- A. Dehydration reaction
- B. Hydrolysis reaction
- C. Addition reaction
- D. Disproportionation reaction

**Answer: A**



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5. The number of hydrogen bonds between guanine and cytosine, and between adenine and thymine in DNA is

A. 1,2

B. 3,2

C. 3,1

D. 2,1,2,9

**Answer: B**



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6. The site of action of insulin is

A. mitochondria

B. nucleus

C. plasma membranes

D. DNA

**Answer: C**



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7. Which of the following statement is not correct?

A. Except glycine all other naturally occurring  $\alpha$ -amino acids are optically active

B.  $\alpha$ -amino acids have maximum solubility at their isoelectric point

C. A tripeptide has two peptide bonds

D.  $\alpha$  amino acids exist as Zwitter ions



**Answer: B**



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**8.** The AT/GC ratio in human beings is (where A=adenine, T=thymine, G=guanine, C=cytosine)

A. 1

B. 1.52

C. 9.3

D. 2

**Answer: B**



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9. How many tripeptides can be prepared by linking the amino acids glycine, alanine and phenyl alanine?

A. One

B. Three

C. Six

D. Twelve

**Answer: C**



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**10.** A codon has sequence of UnderlineA, and specifies a particular underlineB that is to be incorporated into underlineC. What are underlineA, underlineB, underlineC?

A. underlineA

3 bases

B amino acid

C carbohydrate

B. A

3 acids

B

carbohydrate

C

protein

C. A

3 bases B

protein underlineC

amino acid

D. underlineA

3 bases underlineB

amino acid underlineC

protein

**Answer: D**



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