

India's Number 1 Education App

CHEMISTRY

BOOKS - R G PUBLICATION

BIOMOLECULES



1. Mention the hydrolysis products of sucrose.

2. What do you mean by Zwitter ion?



3. Name the vitamin whose deficiency causes

rickets.

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4. Name one water soluble vitamin.

5. Name two carbohydrates which act as bio-

fuels.



6. What do you mean by Zwitter ion?



7. Name a source vitamin E



9. What are enzymes? Write in brief the

mechanism of enzyme Catalysis



12. Name the four bases present in DNA. Which

one of these is not present in RNA?





13. What are essential and non-essential amino

acids? Give one example of each.



14. Name one vitamin which is not soluble in

water and fat.

15. What is the chemical basis of heredity?



16. What are essential and non-essential amino

acids? Give one example of each.

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17. What is denaturation of protein?

18. What are essential and non-essential amino

acids? Give one example of each.



19. What type of linkages hold together

monomer of DNA?



20. Define the following terms in relation
protein: Peptide linkage
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21. Define the following terms in relation

protein: Denaturation.

22. Name the four bases present in DNA.Which one of these is not present in RNA?Watch Video Solution

23. What is the difference between nucleoside

and nucleotide?



24. What are reducing sugars?



25. What is the basic structural difference

between starch and cellulose?

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26. What are essential and non-essential

amino acids? Give one example of each.



27. What are carbohydrates? Give the general formula of carbohydrates. Why are polysaccharides called non-sugars?

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28. What are proteins? Give one example each

of fibrous and globular proteins.

29. A carbohydrate $(C_{12}H_{22}O_{11})$ is boiled with dil. H_2SO_4 in alcoholic solution to form two hexoses with the same chemical formula. Identify the carbohydrate and the two hexoses. Give necessary chemical equations.

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30. What is carbohydrate?

31. Give two examples of polysaccharides.



33. Write the structure of D(+) Glylceraldehyde.

Is this optically acitve?

34. Though glucose contains -CHO group in its open chain structure, but it can not give 2.4 DNP test, schiff test etc. What conclusion can you draw from this beheaviour?

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35. Write the monosaccharide units of lactose.



38. Name one plant starch and one animal starch.

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39. What are carbohydrates? Give the general

formula of carbohydrates. Why are

polysaccharides called non-sugars?

40. What are amino acids?



41. Name the optically inactive amino acid with

its structure.

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42. What is peptide bond? Give one example of

dipeptide.



44. Secondary structure of proteins found to exist in two different types of structures. What are they?



45. What happens when protein is denaturated?

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46. Where does the water present in the egg

go after boiling the egg?

47. Enzymes are-proteins.



50. How nucleic acids are classified. What are

they?



52. Who developed double stranded structure

of DNA?



53. Name the type of bonds present in between two bases in nucleic acid. Name one pair of base linked to each other.

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54. Why vitamin C cannot be stored in our

body?



55. Based on the behaviour on hdyrolysis how carbohdyrates are classified. Give one example of each class.



56. What are reducing and non reducing

sugar? Give examples of each sugar.

57. What happens when D-glucose is treated

with the following reagents: HI



58. What happens when D-glucose is treated

with the following reagents: Br_2 water

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59. What happens when D-glucose is treated with the following reagents: HNO_3



61. Write the two properties which can not be

explained by open chain structure of glucose.

62. How cyclic hemiacetal structure of glucose

is produced? What is anomeric carbon?



63. Draw the Haworth structure of Alpha-D(+)

gluco pyranose and β -D-(+) glucopyranose.

64. What do you mean by inversion of cane sugar?

65. Show with structure that maltose is

reducing sugar.



66. Write two differences between amylose and amylopectin.

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67. What is the basic structural difference

between starch and cellulose?

68. What are essential and non-essential amino acids? Give one example of each. Watch Video Solution 69. How do you explain the amphoteric behaviour of amino acids?

70. What are proteins? How are they classified? Give one example of each class.
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71. Write two difference between fibrous

protein & globular proteins.

72. What do you mean by primary structure & secondary structure of proteins? Which structure gives the idea of shape of protein molecules?

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73. Define 'native protein'. What will happen if

it is subjected to very high temperature?

74. Complte the following table

Name of	Sources	One deficiency
vitamine		disease
(ভিটামিনৰ নাম)	(উৎস)	(এটা অভাবজনিত ৰোগ)
Vit A	_	
Vit B12	-	-
Vit K	-	·

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75. Write two difference between DNA & RNA.



78. What are the different types of RNA found in the cell? And what is the function of RNA in

