



CHEMISTRY

BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

BIOMOLECULES, ENVIRONMENTAL CHEMISTRY IN EVERYDAY LIFE

Exercise

1. Which of the following is a sink for CO ?

A. Haemoglobin

B. Microorganisms present in the soil

C. Oceans

D. Plants

Answer: B



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2. Mixture of chloroxylenol and terpineol acts as :

A. analgesic

B. antiseptic

C. antipyretic

D. antibiotic

Answer: B



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3. Which of the following statements is not correct

- A. Insulin maintains sugar level in the blood of a human body
- B. Ovalbumin is a simple food reserve in egg white
- C. Blood proteins thrombin and fibrinogen are involved in blood clotting
- D. Denaturation makes the proteins more active

Answer: D



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4. In a protein molecule various amino acids are linked together by

- A. β -glycosidic bond

B. peptide bond

C. dative bond

D. α -glycosidic bond

Answer: B



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5. Which of the following is an analgesic?

A. Penicilin

B. Streptomycin

C. Chloromycetin

D. Novalgin

Answer: D





6. The correct statement regarding *RNA* and *DNA*, respectively is :

- A. The sugar component in RNA is ribose and the sugar component in DNA is 2'-deoxyribose
- B. The sugar component in RNA is arabinose and the sugar component in DNA is ribose
- C. the sugar component in RNA is 2'-deoxyribose and the sugar component in DNA is arabinose
- D. The sugar component in RNA is arabinose and the sugar component in DNA is 2'-deoxyribose

Answer: A



7. Which one given below is a non — reducing sugar ?

A. Lactose

B. Glucose

C. Sucrose

D. Maltose

Answer: C



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8. The central dogma of molecular genetics states that the genetic information flows from

A. amino acids \rightarrow proteins \rightarrow DNA

B. DNA \rightarrow carbohydrates \rightarrow proteins

C. DNA \rightarrow RNA \rightarrow proteins

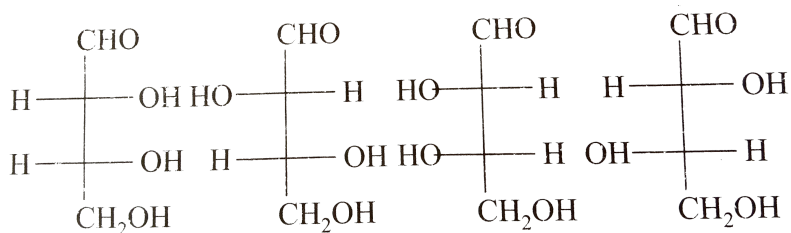
D. DNA \rightarrow RNA \rightarrow carbohydrates

Answer: C



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9. The correct corresponding order of names four aldoses with configuration given below



respectively, is

A. L-erythrose, L-threose, L-erythrose, D-threose

B. D-threose, D-erythrose, L-threose, L-erythrose

C. L-erythrose,L-threose,D-erythrose,D-threose

D. D-erythrose,D-threose,L-erythrose,L-threose

Answer: D



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10. Bithional is generally added to the soaps as an additive to function as a/an

A. softener

B. dryer

C. buffering agent

D. antiseptic

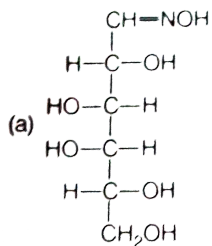
Answer: D



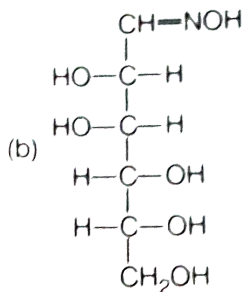
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11. $D(+)$ glucose reacts with hydroxylamine and yields an oxime.

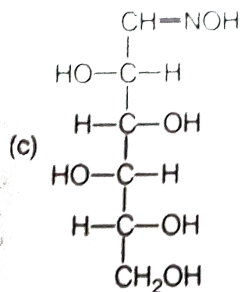
The structure of the oxime would be :



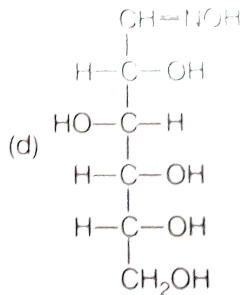
A.



B.



C.



D.

Answer: D



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12. Artificial sweetener which is stable under cold conditions only is

A. saccharine

B. sucralose

C. aspartame

D. alitame

Answer: C



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13. Which of the following is not a common component of photochemical smog?

- A. Ozone
- B. Acrolein
- C. Peroxyacetyl nitrate
- D. Chlorofluorocarbone

Answer: D



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14. Which of the following hormones is produced under the conditions of stress which stimulate glycogenolysis in the liver of

human beings ?

- A. Thyroxin
- B. Insulin
- C. Aderenaline
- D. Estradiol

Answer: C



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15. Antiseptics and disinfectants either kill or prevent growth of microorganism. Identify which of the following statements is not true :

- A. A 0.2 % solution of phenol is an antiseptic which 1% solution acts as a disinfectant

- B. chlorine and iodine are used as strong disinfectants
- C. Dilute solutions of boric acid and hydrogen, peroxides are strong antiseptics
- D. Disinfectants harm the living tissues

Answer: C



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16. Which one of the following statements regarding photochemical smog is not correct?

- A. Carbon monoxide does not play any role in photochemical smog formation
- B. Photochemical smog is an oxidising agent in character

C. Photochemical smog is formed through photochemical reaction involving solar energy

D. Photochemical smog does not cause irritating in eyes and throat

Answer: D



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17. Which one of the following sets of monosaccharides forms sucrose ?

A. α -D-galactopyranose and α -D-glucopyranose

B. α -D-glucopyranose and β -D-fructofuranose

C. β -D-glucopyranose and α -D-fructofuranose

D. α -D-glucopyranose and β -D-fructopyranose

Answer: B



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18. Which one of the following statements is not true regarding (+) Lactose ?

- A. (+) lactose is a β -glycoside formed by the union of a molecule of D-(+)-glucose and a molecule of D-(+)-galactose
- B. (+) lactose is a reducing sugar and does not exhibit mutarotation
- C. (+) galactose , $C_{12}H_{22}O_{11}$ contains $8O - H$ groups
- D. On hydrolysis (+) lactose gives equal amount of D-(+)-glucose and D-(+)-galactose

Answer: B



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19. Which one of the following is employed as antihistamine ?

A. Diphenyl hydramine

B. Norethindrone

C. Omeprazole

D. Chloramphenicol

Answer: A



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20. Which one of the following does not exhibit the phenomenon of mutarotation ?

A. (+)sucrose

B. (+) lactose

C. (+) Maltose

D. (-) Fructose

Answer: A



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21. Which one of the following is employed as a tranquilizer drug ?

A. Promethazine

B. Valium

C. Naproxen

D. Mifepristone

Answer: B



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22. Which of the following hormones contains iodine ?

A. Insulin

B. Testosterone

C. Adrenaline

D. Thyroxine

Answer: D



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23. The segment of *DNA* which acts as the instrumental manual for the synthesis of the protein is:

- A. nucleotide
- B. ribose
- C. gene
- D. nucleoside

Answer: C



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24. Which one of the following is employed as a tranquilizer ?

- A. Equanil
- B. Naproxen

C. Tetracycline

D. chlorpheniramine

Answer: A



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25. Green chemistry means such reactions which

A. produce colour during reactions

B. reduce the use and production of hazardous chemicals

C. are related to the depletion of ozone layer

D. study the reactions in plants

Answer: B



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26. Which of the following is an amine hormone ?

- A. Thyroxin
- B. Oxypurin
- C. Insulin
- D. Progesterone

Answer: A



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27. RNA and DNA are chiral molecules. Their chirality is due to :

- A. L-sugar component
- B. Chiral bases
- C. chiral phosphate ester units

D. D-sugar component

Answer: D



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28. Which one of the following vitamins is water-soluble?

A. Vitamin -B

B. Vitamin -E

C. Vitamin-K

D. Vitamin-A

Answer: A



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29. Which one of the following is a peptide hormone ?

- A. Glucagon
- B. Testosterone
- C. Thyroxin
- D. Adrenaline

Answer: A



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30. The human body does not produce :

- A. DNA
- B. vitamins
- C. hormones

D. enzymes

Answer: B



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31. During the process of digestion, the proteins present in food materials are hydrolysed to amino acids. The two enzymes involved in the process are:

Enzyme (A)
—————→ Polypeptides

—————→ Amino acids
Enzyme (B)

A. amylase and maltase

B. diastase and lipase

C. pepsin and trypsin

D. invertase and zymase

Answer: C



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32. Which functional group participates in the disulphide bond formation in proteins?

A. Thiolactone

B. Thiol

C. Thioether

D. Thioester

Answer: B



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33. Cell membranes are mainly composed of :

- A. carbohydrates
- B. proteins
- C. phospholipids
- D. fats

Answer: C



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34. The helical structure of protein is stabilised by:

- A. dipeptide bonds
- B. hydrogen bonds
- C. ether bonds

D. peptide bonds

Answer: B



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35. The number of chiral carbons in $\beta - D(+) -$ glucose is:

A. five

B. six

C. three

D. four

Answer: A



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36. The correct statement in respect of protein haemoglobin is that it

- A. functions as a catalyst for biological reactions
- B. maintains blood sugar level
- C. acts as an oxygen carrier in the blood
- D. forms antibodies not offers resistance to disease

Answer: C



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37. The hormone that helps in the conversion of glucose into glycogen is:

- A. cortisone

B. bile acids

C. adrenaline

D. insulin

Answer: D



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38. A sequence of how many nucleotides in messenger *RNA* makes a codon for amino acid ?

A. three

B. four

C. one

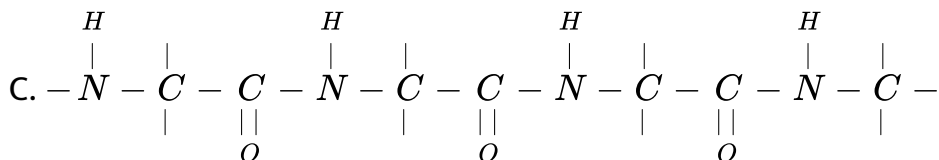
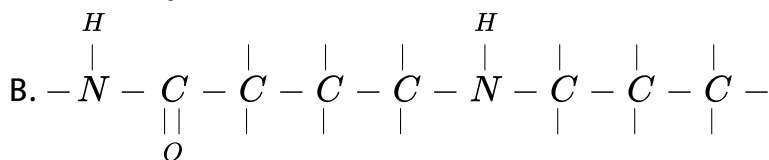
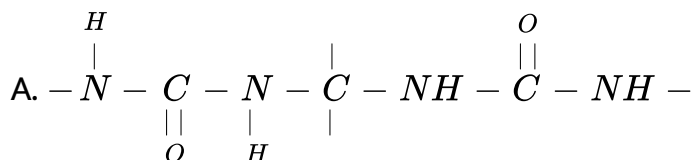
D. two

Answer: A

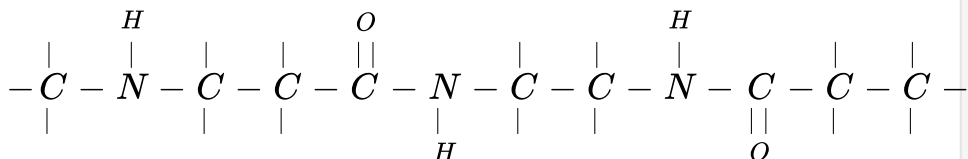


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39. Which of the following structures represents the peptide chain?



D.



Answer: C

40. Chargaff's rule states that in an organism:

- A. amount of adenine (A) is equal to that of cytosine (C) and the amount of thymine (T) is
- B. amounts of all bases are equal
- C. amount of adenine (A) is equal to that of thymine (T) and the amount of guanine (G) is equal to that of cytosine (C)
- D. amount of adenine (A) is equal to that of guanine (G) and the amount of thymine (T) is equal to that of cytosine (C)

Answer: C

41. Glycolysis is

- A. oxidation of glucose to pyruvate
- B. conversion of glucose to haem
- C. oxidation of glucose to glutamate
- D. conversion of pyruvate to citrate

Answer: A



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42. Phospholipids are esters of glycerol with

- A. one carboxylic acid residue and two phosphate groups
- B. three phosphate groups
- C. three carboxylic acid residues

D. two carboxylic acid residues and one phosphate group

Answer: D



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43. Vitamin- B_{12} contains

A. Zn (II)

B. Ca (II)

C. Fe (II)

D. Co (III)

Answer: D



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44. Which is not true statement ?

- A. α carbon of α amino acid is asymmetric
- B. All proteins are found in L-form
- C. Human body can synthesis all proteins they need
- D. At pH=7 both amino and carboxylic groups exist in ionised form

Answer: B

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45. Enzymes are made up of

- A. edible proteins
- B. proteins with specific structure

C. nitrogen containing carbohydrates

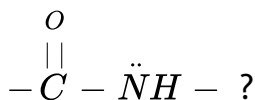
D. carbohydrates

Answer: B



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46. Which statement is incorrect about peptide bond



A. C-N bond length in proteins is longer than usual bond length of C-N bond

B. Spectroscopic analysis show planar structure of $\begin{array}{c} -\text{C} - \text{NH}- \\ || \\ \text{O} \end{array}$ group

- C. C-N bond length in proteins is smaller than usual bond length of C-N bond
- D. None of the above

Answer: C



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47. Which of the following is correct statement ?

- A. Starch is a polymer of α -glucose
- B. Amylose is a component of cellulose
- C. Proteins are composed of only one type of amino acid
- D. In cyclic structure of fructose, there are four carbons and one oxygen atom

Answer: A



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48. Which of the following is correct state H-bonding in nucleotide ?

A. A-T,G-C

B. A-G,T-C

C. G-T,A-C

D. A-A,T-T

Answer: A



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49. Which one of the following gives positive Fehling's solution test?

- A. Sucrose
- B. Glucose
- C. Fats
- D. Proteins

Answer: B



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50. The hormone which controls the process of burning of fats, protiens, and carbohydrates and liberates energy in the body is:

- A. cortisone

B. thyroxine

C. adrenaline

D. insulin

Answer: B



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51. $\alpha - D(+) -$ glucose and $\beta - D(+) -$ glucose are:

A. anomers

B. apimers

C. enantiomers

D. geometrical isomers

Answer: A





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52. Which of the following has magnesium?

- A. Vitamin – B_{12}
- B. chlorophyll
- C. Haemocyanin
- D. Carbonic anhydrates

Answer: B



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53. Which of the following is the sweetest sugar?

- A. sucrose
- B. glucose

C. fructose

D. maltose

Answer: C



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54. In DNA, the complementary bases are

A. adenine and thymine, guanine and cytosine

B. uracil and adenine, cytosine and guanine

C. adenine and guanine, thymine and cytosine

D. adenine and thymine, guanine and uracil

Answer: A



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55. The number of *ATP* molecules produced in the lipid metabolism of a molecules of palmitic acid is

A. 130

B. 36

C. 56

D. 86

Answer: A



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56. Aspirin is an acetylation product of

A. o-hydroxybenzoic acid

B. o-hydroxybenzene

C. m-hydroxybenzoic acid

D. p-dihydroxybenzene

Answer: A



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57. Glucose molecule reacts with X number of molecules of phenylhydrazine to yield osazone. The value of X is.

A. four

B. one

C. two

D. three

Answer: D



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58. Haemoglobin is

- A. an enzyme
- B. a protein
- C. a carbohydrate
- D. a vitamin

Answer: B



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59. The function of enzymes in the living system is to:

- A. transport oxygen
- B. provide immunity

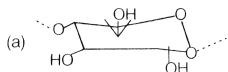
C. catalyse biochemical reactions

D. provide energy

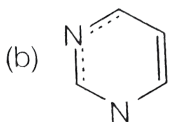
Answer: C

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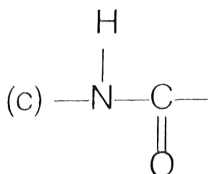
60. Which one of the following chemical units is certainly to be found in enzymes ?



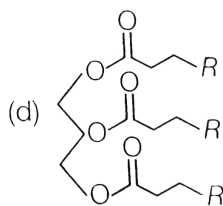
A.



B.



C.



D.

Answer: C

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61. Which of the following can possibly to used as analgesic without causing addiction and mood modification?

A. Morphine

B. Diazepam

C. Tetrahydrocational

D. N-acetyl-para-aminophenol

Answer: D



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62. Commonly used Dettol' is mixture of

- A. o-chlorophenoxylenol+terpineol
- B. o-cresol+terpineol
- C. phenol+terpineol
- D. chlorxylenol+terpineol

Answer: D



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63. Sucrose in water is dextrorotatory, $[\alpha]_D = +66.4^\circ$ when boiled with dil. HCl, the solution becomes leavorotatory , $[\alpha]_D = -39.9^\circ$, In this process the sucrose breaks into

A. L-glucose +D-fructose

B. L-glucose+L-fructose

C. D-glucose+D-fructose

D. D-glucose+L-fructose

Answer: C



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64. In reference to biological role, Ca^{2+} ions are important in

A. triggering the contraction of muscles

B. generating the right electrode potential across cell membrane

C. hydrolysis of ATP

D. defence mechanism

Answer: B



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65. Which of the following proteins destroy the antigen when it enters in body cell ?

A. Antibodies

B. Insulin

C. chromoproteins

D. phosphoproteins

Answer: A



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66. α - *D* glucose and β - *D*-glucose differ from each other due to the difference in one of the carbon atoms, with respect to its.

- A. conformation
- B. configuration
- C. number of OH-groups
- D. size of hemiaetal ring

Answer: B



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67. From chemical consideration, the digestion is basically

- A. anabolism
- B. hydrogenation

C. hydrolysis

D. dehydrogenation

Answer: C



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68. An example of biopolymer is

A. teflon

B. neoprene

C. nylon-66

D. DNA

Answer: D



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69. Diazo coupling is useful to prepare some :

A. pesticides

B. dyes

C. proteins

D. vitamins

Answer: B



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70. The coupling between base units of DNA is through

A. hydrogen bonding

B. electrostatic bonding

C. covalent bonding

D. van der waals' forces

Answer: A



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71. On hydrolysis of starch, we finally get

A. glucose

B. fructose

C. both (a) and (b)

D. sucrose

Answer: A



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