

## EXERCISE- II

## AIPMT 2006

- Which one of the following is a peptide hormone-  
 (1) Glucagon (2) Testosterone  
 (3) Thyroxin (4) Adrenaline
- During the process of digestion, the proteins present in food materials are hydrolysed to amino acids. The two enzymes involved in the process -  

$$\text{Proteins} \xrightarrow{\text{Enzyme(A)}} \text{Polypeptides} \xrightarrow{\text{Enzyme(B)}} \text{Amino acids}$$
 are respectively -  
 (1) Amylase and Maltase  
 (2) Diastase and Lipase  
 (3) Pepsin and Trypsin  
 (4) Invertase and Zymase

## AIPMT 2007

- Which one of the following vitamins is water-soluble-  
 (1) Vitamin A (2) Vitamin B  
 (3) Vitamin E (4) Vitamin K
- RNA and DNA are chiral molecules, their chirality is due to -  
 (1) D-sugar Component  
 (2) L-sugar component  
 (3) Chiral bases  
 (4) Chiral phosphate ester units
- Which one of the following polymers is prepared by condensation polymerization  
 (1) Styrene (2) Nylon-66  
 (3) Teflon (4) Rubber

## AIPMT 2008

- In DNA, the complimentary bases are :  
 (1) Adenine and thymine ; guanine and uracil  
 (2) Adenine and guanine ; thymine and cytosine  
 (3) Uracil and adenine ; cytosine and guanine  
 (4) Adenine and thymine ; guanine and cytosine

- Which one of the following is an amine hormone:  
 (1) Oxypurin (2) Insulin  
 (3) Progesterone (4) Thyroxine
- Which of the following statement is not true :  
 (1) Natural rubber has the trans-configuration at every double bond.  
 (2) Buna-S is a copolymer of butadiene and styrene.  
 (3) Natural rubber is a 1,4-polymer of isoprene.  
 (4) In vulcanization, the formation of sulphur bridges between different chains make rubber harder and stronger.
- Green chemistry means such reaction which :  
 (1) Reduce the use and production of hazardous chemicals.  
 (2) Are related to the depletion of ozone layer  
 (3) Study the reaction in plants  
 (4) Produce colour during reactions

## AIPMT 2009

- Which one of the following is employed as a tranquilizer ?  
 (1) Chlorpheninamine (2) Equanil  
 (3) Naproxen (4) Tetracycline
- Structures of some common polymers are given. Which one is not correctly presented ?  
 (1) Nylon 6  $-\text{[NH(CH}_2\text{)}_6\text{NHCO(CH}_2\text{)}_4\text{-CO-]}_n$   
 (2) Teflon  $\text{-[CF}_2\text{-CF}_2\text{-]}_n$   
 (3) Neoprene  $\left( \text{-CH}_2\text{-}\underset{\text{Cl}}{\text{C}}\text{=CH-CH}_2\text{-CH}_2\text{-} \right)_n$   
 (4) Terylene  $\left( \text{-OG-}\langle \text{O} \rangle\text{-COOCH}_2\text{-CH}_2\text{-O-} \right)_n$
- The segment of DNA which acts as the instrumental manual for the synthesis of the protein is :-  
 (1) Nucleoside (2) Nucleotide  
 (3) Ribose (4) Gene

13. Which of the following hormones contains iodine ?

- (1) Thyroxine (2) Insulin  
(3) Testosterone (4) Adrenaline

#### AIPMT 2010

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

- (1) Mifepristone (2) Promethazine  
(3) Valium (4) Naproxen

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

- (1) (-) Fructose (2) (+) Sucrose  
(3) (+) Lactose (4) (+) Maltose

16. Which of the following structures represents Neoprene polymer ?

- (1)  $\left( \text{-CH-CH}_2 \right)_n$  (2)  $\left( \text{CH}_2-\text{C}=\text{CH-CH}_2 \right)_n$   
 $\begin{array}{c} | \\ \text{C}_6\text{H}_5 \end{array}$   $\begin{array}{c} | \\ \text{Cl} \end{array}$   
 (3)  $\left( \text{CH}_2-\text{CH} \right)_n$  (4)  $\left( \text{CH}_2-\text{CH} \right)_n$   
 $\begin{array}{c} | \\ \text{CN} \end{array}$   $\begin{array}{c} | \\ \text{Cl} \end{array}$

#### AIPMT Main 2010

17. Fructose reduces Tollen's reagent due to :-

- (1) Primary alcoholic group  
(2) Secondary alcoholic group  
(3) Enolization of fructose followed by conversion to aldehyde by base.  
(4) Asymmetric carbons

#### AIPMT Pre. 2011

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

- (1) On hydrolysis (+) Lactose gives equal amount of D(+) glucose and D(+) galactose  
(2) (+) Lactose is a  $\beta$ -glycoside formed by the union of a molecule of D(+) glucose and a molecule of D(+) galactose  
(3) (+) Lactose is a reducing sugar and does not exhibit mutarotation  
(4) (+) Lactose,  $\text{C}_{12}\text{H}_{22}\text{O}_{11}$  contains 8-OH groups

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

- (1) Chloramphenicol  
(2) Diphenyl hydramine  
(3) Norethindrone  
(4) Omeprazole

20. Which of the following one is classified as polyester polymer ?

- (1) Terylene (2) Bakelite  
(3) Malamine (4) Nylon-66

#### AIPMT Mains 2011

21. Which of the following is not a fat soluble vitamin ?

- (1) Vitamin A (2) Vitamin B complex  
(3) Vitamin D (4) Vitamin E

22. Which of the following statements about 'Denaturation' given below are correct ?

#### Statements

- (a) Denaturation of proteins causes loss of secondary and tertiary structures of the protein  
(b) Denaturation leads to the conversion of double strand of DNA into single strand.  
(c) Denaturation affects primary structure which gets distorted

Options :

- (1) (a), (b) and (c) (2) (b) and (c)  
(3) (a) and (c) (4) (a) and (b)

#### AIPMT Pre 2012

23. Deficiency of vitamin B<sub>1</sub> causes the disease

- (1) Cheilosis (2) Sterility  
(3) Convulsions (4) Beri-Beri

24. Which one of the following sets of mono-saccharides forms sucrose?

- (1)  $\beta$ -D-Glucopyranose and  $\alpha$ -D-fructofuranose  
(2)  $\alpha$ -D-Glucopyranose and  $\beta$ -D-fructopyranose  
(3)  $\alpha$ -D-Galactopyranose and  $\alpha$ -D-Glucopyranose  
(4)  $\alpha$ -D-Glucopyranose and  $\beta$ -D-fructofuranose

25. Which one of the following is not a condensation polymer?

- (1) Dacron (2) Neoprene  
(3) Melamine (4) Glyptal

26. Which of the following statements is false?

- (1) The repeat unit in natural rubber is isoprene  
(2) Both starch and cellulose are polymers of glucose  
(3) Artificial silk is derived from cellulose  
(4) Nylon-66 is an example of elastomer

### AIPMT Mains 2012

27. Which one of the following sets forms the biodegradable polymer?

- (1)  $\text{HO}-\text{CH}_2-\text{CH}_2-\text{OH}$  &  $\text{HOOC}-\text{C}_6\text{H}_4-\text{COOH}$   
(2)  $\text{C}_6\text{H}_5-\text{CH}=\text{CH}_2$  and  $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$   
(3)  $\text{CH}_2=\text{CH}-\text{CN}$  and  $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$   
(4)  $\text{H}_2\text{N}-\text{CH}_2-\text{COOH}$  and  $\text{H}_2\text{N}-(\text{CH}_2)_5-\text{COOH}$

28. Chloroamphenicol is an :-

- (1) Antiseptic and disinfectant  
(2) Antibiotic broad spectrum  
(3) Antifertility drug  
(4) Antihistaminic

### NEET UG 2013

29. Nylon is an example of :-

- (1) Polythene (2) Polyester  
(3) Polysaccharide (4) Polyamide

30. Antiseptics and disinfectants either kill or prevent growth of microorganisms. Identify which of the following statements is **not true**:-

- (1) Disinfectants harm the living tissues  
(2) A 0.2% solution of phenol is an antiseptic while 1% solution acts as a disinfectant  
(3) Chlorine and Iodine are used as strong disinfectants  
(4) Dilute solutions of Boric acid and Hydrogen Peroxide are strong antiseptics

31. Which is the monomer of Neoprene in the following ?

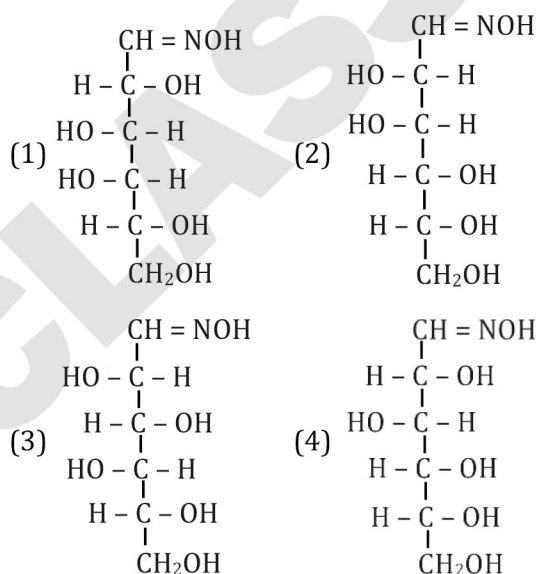
- (1)  $\text{CH}_2=\text{CH}-\text{C}\equiv\text{CH}$  (2)  $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$   
(3)  $\text{CH}_2=\underset{\text{CH}_3}{\text{C}}-\text{CH}=\text{CH}_2$  (4)  $\text{CH}_2=\underset{\text{Cl}}{\text{C}}-\text{CH}=\text{CH}_2$

### AIPMT 2014

32. Artificial sweetner which is stable under cold conditions only is :-

- (1) Saccharine (2) Sucralose  
(3) Aspartame (4) Alitame

33. D (+) glucose reacts with hydroxylamine and yields an oxime. The structure of the oxime would be :



34. Which one of the following is an example of a thermosetting polymer?

- (1)  $\left\{ \text{CH}_2-\underset{\text{Cl}}{\text{C}}=\text{CH}-\text{CH}_2 \right\}_n$   
(2)  $\left\{ \text{CH}_2-\underset{\text{Cl}}{\text{CH}} \right\}_n$   
(3)  $\left\{ \text{N}-(\text{CH}_2)_6-\text{N}-\overset{\text{O}}{\parallel}{\text{C}}-(\text{CH}_2)_4-\overset{\text{O}}{\parallel}{\text{C}} \right\}_n$   
(4)  $\left( \text{C}_6\text{H}_3(\text{OH})_2-\text{CH}_2-\text{C}_6\text{H}_3(\text{OH})_2-\text{CH}_2 \right)_n$

35. Which of the following organic compounds polymerizes to form the polyester Dacron?
- (1) Propylene and para HO-(C<sub>6</sub>H<sub>4</sub>)-OH
  - (2) Benzoic acid and ethanol
  - (3) Terephthalic acid and ethylene glycol
  - (4) Benzoic acid and para HO-(C<sub>6</sub>H<sub>4</sub>)-OH

#### Re-AIPMT 2015

36. Caprolactam is used for the manufacture of:
- (1) Terylene
  - (2) Nylon-6,6
  - (3) Nylon-6
  - (4) Teflon

#### AIPMT 2015

37. Bithional is generally added to the soaps as an additive to function as a/an :-
- (1) Dryer
  - (2) Buffering agent
  - (3) Antiseptic
  - (4) Softner
38. Biodegradable polymer which can be produced from glycine and aminocaproic acid is :-
- (1) PHBV
  - (2) Buna-N
  - (3) Nylon 6, 6
  - (4) Nylon 2- nylon 6

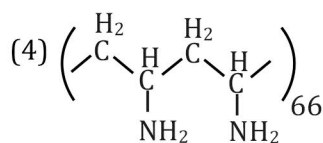
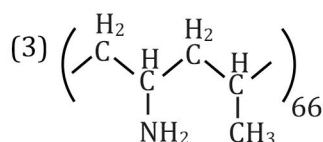
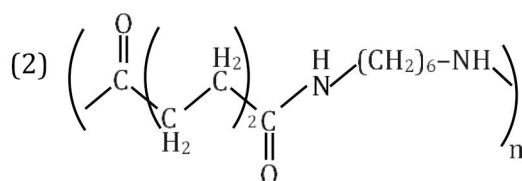
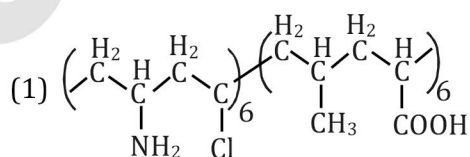
#### NEET-I 2016

39. In a protein molecule various amino acids are linked together by :
- (1)  $\alpha$ -glycosidic bond
  - (2)  $\beta$ -glycosidic bond
  - (3) Peptide bond
  - (4) Dative bond
40. The **correct** statement regarding RNA and DNA, respectively is :
- (1) The sugar component in RNA is arabinose and the sugar component in DNA is 2'-deoxyribose.
  - (2) The sugar component in RNA is ribose and the sugar component in DNA is 2'-deoxyribose.
  - (3) The sugar component in RNA is arabinose
  - (4) The sugar component in RNA is 2'-deoxyribose and the sugar component in DNA is arabinose.
41. Which one given below is a non-reducing sugar ?
- (1) Maltose
  - (2) Lactose
  - (3) Glucose
  - (4) Sucrose

42. Natural rubber has
- (1) All cis-configuration
  - (2) All trans-configuration
  - (3) Alternate cis-and trans-configuration
  - (4) Random cis-and trans-configuration
43. Which of the following is an analgesic ?
- (1) Novalgin
  - (2) Penicillin
  - (3) Streptomycin
  - (4) Chloromycetin

#### NEET-II 2016

44. The central dogma of molecular genetics states that the genetic information flows from :-
- (1) DNA  $\rightarrow$  RNA  $\rightarrow$  Proteins
  - (2) DNA  $\rightarrow$  RNA  $\rightarrow$  Carbohydrates
  - (3) Amino acids  $\rightarrow$  Proteins  $\rightarrow$  DNA
  - (4) DNA  $\rightarrow$  Carbohydrates  $\rightarrow$  Proteins
45. Which one of the following compounds shows the presence of intramolecular hydrogen bond ?
- (1) Cellulose
  - (2) Concentrated acetic acid
  - (3) H<sub>2</sub>O<sub>2</sub>
  - (4) HCN
46. Which one of the following structures represents nylon 6,6 polymer ?





## NEET(UG) 2017

47. Mixture of chloroxyleneol and terpineol acts as :  
 (1) Antiseptic (2) Antipyretic  
 (3) Antibiotic (4) Analgesic
48. Which of the following statements is not correct :-  
 (1) Ovalbumin is a simple food reserve in egg-white  
 (2) Blood proteins thrombin and fibrinogen are involved in blood clotting  
 (3) Denaturation makes the proteins more active  
 (4) Insulin maintains sugar level in the blood of a human body

## NEET(UG) 2018

49. The difference between amylose and amylopectin is  
 (1) Amylopectin have 1 → 4 α-linkage and 1 → 6 α-linkage  
 (2) Amylose have 1 → 4 α-linkage and 1 → 6 β-linkage  
 (3) Amylopectin have 1 → 4 α-linkage and 1 → 6 β-linkage  
 (4) Amylose is made up of glucose and galactose
50. Which of the following compounds can form a zwitterion ?  
 (1) Aniline (2) Acetanilide  
 (3) Benzoic acid (4) Glycine
51. Regarding cross-linked or network polymers, which of the following statements is **incorrect**?  
 (1) They contain covalent bonds between various linear polymer chains.  
 (2) They are formed from bi-and tri-functional monomers.  
 (3) Examples are bakelite and melamine.  
 (4) They contain strong covalent bonds in their polymer chains.

## NEET(UG) 2019

52. Among the following, the narrow spectrum antibiotic is :-  
 (1) Penicillin G (2) Ampicillin  
 (3) Amoxycillin (4) Chloramphenicol

53. The biodegradable polymer is :-  
 (1) nylon-6,6 (2) nylon 2-nylon 6  
 (3) nylon-6 (4) Buna-S
54. The non-essential amino acid among the following is:  
 (1) Valine (2) Leucine  
 (3) Alanine (4) Lysine

## NEET(UG) 2019 (ODISHA)

55. Which structure(s) of proteins remains(s) intact during denaturation process ?  
 (1) Both secondary and tertiary structures  
 (2) Primary structure only  
 (3) Secondary structure only  
 (4) Tertiary structure only
56. The polymer that is used as a substitute for wool in making commercial fibres is :-  
 (1) Melamine (2) nylon-6, 6  
 (3) polyacrylonitrile (4) Buna-N
57. The artificial sweetener stable at cooking temperature and does not provide calories is:-  
 (1) Saccharin (2) Aspartame  
 (3) Sucralose (4) Alitame
58. Match the catalyst with the process :-
- | Catalyst                   | Process   |
|----------------------------|---|
| (i) $V_2O_5$               | (a) The oxidation of ethyne to ethanal                  |
| (ii) $TiCl_4 + Al(CH_3)_3$ | (b) Polymerisation of alkynes                           |
| (iii) $PdCl_2$             | (c) Oxidation of $SO_2$ in the manufacture of $H_2SO_4$ |
| (iv) Nickel                | (d) Polymerisation of Complexes ethylene                |

Which of the following is the correct option ?

- (1) i-c, ii-d, iii-a, iv-b (2) i-a, ii-b, iii-c, iv-d  
 (3) i-a, ii-c, iii-b, iv-d (4) i-c, ii-a, iii-d, iv-b

## NEET(UG) 2020

59. Sucrose on hydrolysis gives :  
 (1) α-D-Fructose + β-D-Fructose  
 (2) β-D-Glucose + α-D-Fructose  
 (3) α-D-Glucose + β-D-Glucose  
 (4) α-D-Glucose + β-D-Fructose

60. Which of the following is a cationic detergent?  
 (1) Sodium dodecylbenzene sulphonate  
 (2) Sodium lauryl sulphate  
 (3) Sodium stearate  
 (4) Cetyltrimethyl ammonium bromide
61. Which of the following is a natural polymer ?  
 (1) poly (Butadiene-acrylonitrile)  
 (2) cis-1,4-polyisoprene  
 (3) poly (Butadiene-styrene)  
 (4) polybutadiene
62. Which of the following is a basic amino acid :  
 (1) Lysine (2) Serine  
 (3) Alanine (4) Tyrosine

## NEET(UG) 2020 (COVID-19)

63. Which of the following is **not** true about chloramphenicol ?  
 (1) It inhibits the growth of only grampositive bacteria.  
 (2) It is a broad spectrum antibiotic.  
 (3) It is not bactericidal.  
 (4) It is bacteriostatic.
64. Which of the following statement is correct about Bakelite ?  
 (1) It is a cross linked polymer.  
 (2) It is an addition polymer.  
 (3) It is a branched chain polymer.  
 (4) It is a linear polymer.

65. The reaction of concentrated sulphuric acid with carbohydrates ( $C_{12}H_{22}O_{11}$ ) is an example of  
 (1) Dehydration (2) Oxidation  
 (3) Reduction (4) Sulphonation
66. Deficiency of which vitamin causes osteomalacia?  
 (1) Vitamin A (2) Vitamin D  
 (3) Vitamin K (4) Vitamin E

## NEET(UG) 2021

67. Given below are two statements:  
**Statement I :**  
 Aspirin and Paracetamol belong to the class of narcotic analgesics.  
**Statement II :**  
 Morphine and Heroin are non-narcotic analgesics. In the light of the above statements, choose the **correct** answer from the options given below.  
 (1) Both **Statement I** and **Statement II** are true.  
 (2) Both **Statement I** and **Statement II** are false.  
 (3) **Statement I** is correct but **Statement II** is false.  
 (4) **Statement I** is incorrect but **Statement II** is true.
68. The RBC deficiency is deficiency disease of:  
 (1) Vitamin  $B_{12}$  (2) Vitamin  $B_6$   
 (3) Vitamin  $B_1$  (4) Vitamin  $B_2$
69. Which one of the following polymers is prepared by addition polymerisation ?  
 (1) Teflon (2) Nylon-66  
 (3) Novolac (4) Dacron

## EXERCISE-II (Previous Year Questions)

## ANSWER KEY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer	1	3	2	1	2	4	4	1	1	2	3	4	1	3	2
Question	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Answer	2	3	3	2	1	2	4	4	4	2	4	4	2	4	4
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Answer	4	3	4	4	3	3	3	4	3	2	4	1	1	1	1
Question	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Answer	2	1	3	1	4	4	1	2	3	2	3	3	1	4	4
Question	61	62	63	64	65	66	67	68	69						
Answer	2	1	1	1	1	2	2	1	1						

**Exercise-III (Analytical Questions)**

- In which of the following properties of an open chain structure of glucose could not be explained by Baeyer –
  - Glucose contain aldehyde group, but does not give schiff's test
  - Glucose does not react with sodium hydrogen sulphite and ammonia
  - The pentaacetate of glucose does not react with hydroxy amine indicates absence of  $-CHO$  group
  - All of these
- When glucose was crystallized from a concentrated solution at  $30^{\circ}\text{C}$  &  $98^{\circ}\text{C}$ . It gave  $\alpha$  &  $\beta$  form of glucose respectively what are the angle of rotation  $[\alpha_D]$  for both forms –
  - (+)  $111^{\circ}$  & (+)  $19.2^{\circ}$
  - (+)  $19.2^{\circ}$  & (–)  $111^{\circ}$
  - (+)  $111^{\circ}$  & (–)  $19.2^{\circ}$
  - (–)  $111^{\circ}$  & (–)  $19.2^{\circ}$
- Dinucleotide is obtained by joining two nucleotides together by phosphodiester linkage. Between which carbon atoms of pentose sugar of nucleotides are these linkages presents.
  - 5' and 3'                      (2) 1' and 5'
  - 5' and 5'                      (4) 3' and 3'
- Which statement is incorrect in following –
  - Sucrose is dextrorotatory
  - After hydrolysis of sucrose, dextrorotatory glucose and laevorotatory fructose will obtained
  - Laevorotation of fructose is more than dextrorotation of glucose
  - Cane sugar gives nonequimolar mixture of D- (+)-glucose and D- (–)-fructose
- On hydrolysis of one mole of maltose two moles of D-glucose are obtained. These two glucose units are linked together through a  $\alpha$ -glycoside linkage between –
  - C-2 of one unit and C-4 of another unit
  - C-1 of one unit and C-2 of another unit
  - C-1 of one unit and C-4 of another unit
  - C-2 of one unit and C-3 of another unit
- Which statement is/are incorrect –
  - Natural starch has approximately 10-20% of amylose and 80-90% of amylopectin.
  - Amylose is water soluble and gives blue colour with iodine
  - Amylopectin is a branched chain polysaccharides insoluble in water and does not give blue colour with iodine
  - Starch is not hydrolysed by enzyme amylase present in saliva
- Which of the following statement is true for proteins –
  - Proteins are high molecular mass complex biopolymers of amino acids present in all living cells
  - Protein may contains phosphorous & iodine
  - Proteins may contains iron, copper, zinc and manganese
  - All of these
- Which of following are essential amino acids-
 

(a) Aspartic acid	(b) Leucine
(c) Valine	(d) Glycine
(e) Alanine	

  - a, b & c                      (2) a, b, d & e
  - b & c                      (4) a, c, d & e
- At a certain hydrogen ion concentration (pH), the dipolar ion exists as a neutral ion and does not migrate to either electrode. What is the name of pH point for amino acids –
  - Isoelectric point      (2) Isoprotonic point
  - Isotonic point          (4) None of these
- Which of the following reactions of glucose can be explained only by its cyclic structure.
  - Glucose forms penta acetate
  - Glucose reacts with hydroxylamine to form an oxime
  - Penta acetate of glucose does not react with hydroxylamine
  - Glucose is oxidised by nitric acid to gluconic acid

11. Protein found in biological system with definite configuration and biological activity is called –  
(1) Amino acids (2) Native protein  
(3) Conformer protein (4) Inactive protein
12. Which of following statement is not true for enzyme –  
(1) Some enzymes can be non proteins also  
(2) Prosthetic groups which get attached to enzyme at the time of reaction are known as cofactor.  
(3) Enzymes provides lower activation pathways there by increasing the rate of reaction  
(4) None of these
13. Which of following statements is incorrect –  
(1) Proteins have a polyamide chain while nucleic acids contains a poly phosphate ester chain  
(2) Nucleic acids are long chain polymers of nucleotides  
(3) RNA is major source of genetic information which is copied into a DNA molecules  
(4) Proteins are synthesized in a process involving translation of RNA.
14. Complete hydrolysis of DNA or RNA yields following–  
(1) Ribose in RNA & deoxyribose in DNA  
(2) Hetrocyclic nitrogenous purines base  
(3) Hetrocyclic nitrogenous pyrimidines  
(4) All of these
15. Nucleosides are –  
(1) Base + sugar = Nucleoside  
(2) N-glycosides of purine or pyrimidine bases with pentose sugar  
(3) Both of these  
(4) None of these
16. RNA molecules in turn directs the synthesis of specific proteins which are characteristic of each kind of organism. This process is known as –  
(1) Translation (2) Transcription  
(3) Replication (4) None of these
17. A single stand of DNA can act as a template on which a molecule of RNA is synthesized in a specific manner. This process is known as –  
(1) Replication (2) Transcription  
(3) Translation (4) None of these
18. Which is correct statement –  
(1) Starch is polymer of  $\alpha$ -glucose  
(2) Amylose is a component of cellulose  
(3) Protien are composed of only one type of amino acid  
(4) In cyclic structure of fructose, there are four carbons and one oxygen atom
19. Which is incorrect about histamine.  
(1) Histamine stimulates the secretion of pepsin & HCl in the stomach  
(2) Histamine is a potent vasodilator  
(3) Histamine is also responsible for nasal congestion associated with cold or allergic response to pollen.  
(4) Histamine doesn't affect muscles of the bronchi
20. Brompheniramine & Terfenadine drugs belongs to which category.  
(1) Antacid (2) Antihistamine  
(3) Transquilizer (4) Antiseptic
21. Find incorrect statement :  
(1) Tranquilizer & analgesis are neurologically active drugs  
(2) Barbiturates are sleep producing agents  
(3) Tranquilizer are used to reduce stress, mental diseases  
(4) Analgesis are used to reduce pain with causing impairment of consciousness
22. Find incorrect statement  
(1) Detergent involves soap and synthetic detergents  
(2) Sodium soap and potassium soap are soluble in water  
(3)  $C_{17}H_{35}COONa$  is sodium stearate and used as a soap  
(4) During saponification, soap is obtained in solid form

23. Which of the following is/are condensation polymers-

- (1) Dacron (2) Nylon 6  
(3) Nylon 6,6 (4) All of these

24. Free radical generating initiator (catalyst) is/are :

- (1) Benzoyl peroxide  
(2) Acetyl peroxide  
(3) Tert-butyl peroxide  
(4) All of these

25. Novolac on heating with formaldehyde under goes cross linking to form an infusible solid mass is called.

- (1) Bakelite  
(2) Malamine-formaldehyde  
(3) Terylene  
(4) Nylon-6

26. Correct statements about vulcanisation of rubber is/are-

- (1) Rubber gets stiffened  
(2) In this process, raw rubber is heated with sulphur and appropriate additive at temperature range 373 K to 415 K  
(3) By this process physical properties of rubber improve  
(4) All of these

27. Arrange following polymers in increasing order of their intermolecular force-

- (i) Nylon-6 (ii) Neoprene  
(iii) Poly vinyl chloride

- (1) i < ii < iii (2) ii < iii < i  
(3) iii < i < ii (4) iii < ii < i

28. Biodegradable polymer is-

- (1) PHBV (2) Nylon 2 - Nylon 6  
(3) Both of these (4) None of these

29. Match the column.

Column-I (Carbohydrates)		Column-II (Source or name)	
(a)	Sucrose	(p)	Animal starch
(b)	Lactose	(q)	Cereals, roots, tubers
(c)	Glycogen	(r)	Milk sugar
(d)	Starch	(s)	Cane sugar

- (1) a - r, b - s, c - q, d - p  
(2) a - s, b - r, c - p, d - q  
(3) a - s, b - p, c - r, d - q  
(4) a - p, b - q, c - r, d - s

30. Match the column.

Column-I (Reaction of Glucose)		Column-II (Product)	
(a)	Glucose $\xrightarrow{\text{HI}, \Delta}$	(p)	Osazone
(b)	Glucose $\xrightarrow{\text{Br}_2 \text{ water}}$	(q)	n-Hexane
(c)	Glucose $\xrightarrow{\text{Nitric acid}}$	(r)	Gluconic acid
(d)	Glucose $\xrightarrow[\text{H}^{\oplus}]{3\text{Ph-NH-NH}_2}$	(s)	Saccharic acid

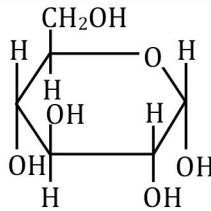
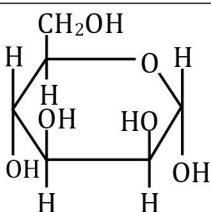
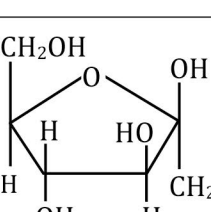
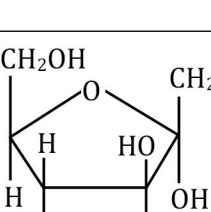
- (1) a - q, b - s, c - p, d - r  
(2) a - q, b - p, c - r, d - s  
(3) a - q, b - s, c - r, d - p  
(4) a - q, b - r, c - s, d - p

31. Match the column.

Column-I (Carbohydrates)		Column-II (Monosaccharide unit)	
(a)	Maltose	(p)	$\beta$ -D-Glucose
(b)	Lactose	(q)	Two $\alpha$ -D-Glucose
(c)	Cellulose	(r)	$\beta$ -D-Galactose & $\beta$ -D-Glucose
(d)	Sucrose	(s)	$\alpha$ -D-Glucose & $\beta$ -D-Fructose

- (1) a - q, b - s, c - r, d - p  
(2) a - q, b - r, c - p, d - s  
(3) a - r, b - s, c - p, d - q  
(4) a - r, b - p, c - q, d - s

32. Match the column.

	Column-I (Structure)	Column-II (Name)
(a)		(p) $\alpha$ -D-annose
(b)		(q) $\beta$ -D-Fructose
(c)		(r) $\alpha$ -D-Glucose
(d)		(s) $\alpha$ -D-Fructose

(1) a - p, b - r, c - q, d - s

(2) a - r, b - p, c - q, d - s

(3) a - p, b - r, c - s, d - q

(4) a - r, b - p, c - s, d - q

33. Which of the following are non Reducing in nature-

(A) Cellulose (B) Sucrose

(C) Lactose (D) Starch

(1) A and B are correct

(2) A, B and C are correct

(3) A, B and D are correct

(4) A, C and D are correct

34. Given below are two statements; one is labelled as **Assertion** and the other is labelled as **Reason**.

**Assertion** :- Glucose gets oxidised to six carbon carboxylic acid (gluconic acid) on reaction with a mild oxidising agent like  $\text{Br}_2$  water.

**Reason** :- This indicates the presence of a primary alcoholic ( $-\text{OH}$ ) group in glucose.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

(1) Assertion & reason both are true & reason is a correct explanation of the assertion.

(2) Assertion & reason both are true but reason is not a correct explanation of the assertion.

(3) Both assertion & reason are false.

(4) Assertion is true but reason is false.

35. Given below are two statements:

**Statement-I** : the pentaacetate of glucose does not react with hydroxylamine indicating the absence of free  $-\text{CHO}$  group.

**Statement-II** : Despite having the aldehyde group, glucose does not give schiff's test and it does not form the hydrogen-sulphite addition product with  $\text{NaHSO}_3$ .

In the light of the above statements, choose the most appropriate answer from the options given below:

(1) Statement I is correct and statement II is incorrect

(2) Statement-I and statement-II both are correct.

(3) Statement I and statement II both are incorrect

(4) Statement I is incorrect and statement II is correct.

36. Given below are two statements:

**Statement-I** : All carbohydrates which reduce Fehling's solution and Tollen's reagent are referred to as reducing sugars.

**Statement-II** : All disaccharides whether aldose or ketose are reducing sugars.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement I is incorrect and statement II is correct.
- (2) Statement-I and statement-II both are correct.
- (3) Statement I is correct and statement II is incorrect
- (4) Statement I and statement II both are incorrect

37. Given below are two statements:

**Statement-I :** Sucrose is laevorotatory but after hydrolysis gives dextrorotatory glucose and laevorotatory fructose.

**Statement-II :** Hydrolysis of sucrose brings about a change in the sign of rotation, from dextro (+) to laevo (-) and the product is named as invert sugar.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement I is correct and statement II is incorrect
- (2) Statement I is incorrect and statement II is correct.
- (3) Statement-I and statement-II both are correct.
- (4) Statement I and statement II both are incorrect

38. Given below are two statements:

**Statement-I :** Amylose is water soluble component which constitutes about 15 - 20% of starch. Chemically amylose is a long unbranched chain with 200-1000  $\alpha$ -D-(+)-glucose units held together by C<sub>1</sub>-C<sub>4</sub> glycosidic linkage.

**Statement-II :** Amylopectin is insoluble in water and constitutes about 80-85% of starch. It is a branched chain polymer of  $\alpha$ -D-glucose units in which chain is formed by C<sub>1</sub>-C<sub>4</sub> glycosidic linkage whereas branching occurs by C<sub>1</sub>-C<sub>6</sub> glycosidic linkage.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement-I and statement-II both are correct.
- (2) Statement I is correct and statement II is incorrect
- (3) Statement I is incorrect and statement II is correct.
- (4) Statement I and statement II both are incorrect

39. Given below are two statements:

**Statement-I :** Only  $\alpha$ -Amino acids are obtained on hydrolysis of proteins.

**Statement-II :** The amino acids which can be synthesised in body are known as essential amino acids.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Both statement I & II are correct.
- (2) Both statement I & II are incorrect.
- (3) Statement I is incorrect but statement II is correct
- (4) Statement I is correct but statement II is incorrect

40. Given below are two statements:

**Statement-I :** In Zwitter ionic form, Amino acids show amphoteric behaviour as they react both with acid & bases.

**Statement-II :** Most natural occurring amino acids have D-configuration.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement I is incorrect but statement II is correct
- (2) Statement I is correct but statement II is incorrect
- (3) Both statement I & II are incorrect.
- (4) Both statement I & II are correct.



41. Match the column I & II :-

Column-I (Vitamins)		Column-II (Sources)	
(a)	Vitamin-A	(p)	Exposure to sunlight
(b)	Vitamin-B12	(q)	Yeast, milk
(c)	Vitamin-B6	(r)	Meat
(d)	Vitamin-D	(s)	Fish liver oil

(1) a - s, b - r, c - q, d - p

(2) a - s, b - q, c - p, d - r

(3) a - q, b - s, c - r, d - p

(4) a - r, b - p, c - q, d - s

42. Match the column I & II :-

Column-I (Vitamins)		Column-II (Disease)	
(a)	Vitamin-B1	(p)	Scurvy
(b)	Vitamin-B6	(q)	Blood clotting delay
(c)	Vitamin-C	(r)	Beri-Beri
(d)	Vitamin-K	(s)	Convulsions

(1) a - r, b - p, c - q, d - s

(2) a - s, b - q, c - p, d - r

(3) a - r, b - s, c - p, d - q

(4) a - q, b - r, c - s, d - p

43. Match the column :-

Column-I		Column-II	
(a)	Fat soluble vitamin	(p)	Fingerprinting
(b)	Water soluble vitamin	(q)	Vitamin A and vitamin D
(c)	DNA	(r)	Uracil
(d)	RNA	(s)	Vitamin B and vitamin C

(1) a - s, b - s, c - r, d - p

(2) a - q, b - s, c - p, d - r

(3) a - q, b - r, c - p, d - s

(4) a - q, b - s, c - r, d - p

44. Match the column I & II :-

Column-I		Column-II	
(a)	Heredity	(p)	Proteins
(b)	Chromosomes made up by	(q)	Transmission of inherent characters
(c)	Nucleic Acid	(r)	Increased fragility of RBCs
(d)	Vitamin-E deficiency	(s)	Long chain polymers of Nucleotides

(1) a - q, b - p, c - s, d - r

(2) a - q, b - p, c - r, d - s

(3) a - p, b - q, c - r, d - s

(4) a - p, b - q, c - s, d - r

45. Given below are two statements; one is labelled as **Assertion (A)** and the other is labelled as **Reason(R)**.

**Assertion :** Amino acids are water soluble, high melting solids & behave like salts rather than simple amines or carboxylic acids.

**Reason :** This behaviour is due to presence of both acidic ( $-\text{COOH}$ ) & basic ( $-\text{NH}_2$ ) groups in the same molecule.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

(1) Both assertion and reason are false.

(2) Assertion is true but reason is false.

(3) Both assertion & reason are true but reason is not the correct explanation of assertion.

(4) Both assertion & reason are true and reason is a correct explanation of assertion.

46. **Statement-I :** Protein found in a biological system with unique three dimensional structure & biological activity is called a native protein.



**Statement-II** : Except glycine all other naturally occurring  $\alpha$ -Amino acids are optically active.

- (1) Statement I is correct but statement II is incorrect  
 (2) Statement I is incorrect but statement II is correct.  
 (3) Both statements I and statements II are correct.  
 (4) Both statements I and statements II are incorrect.

**47. Statement-I** : Enzymes which do not catalyse the oxidation of one substrate with simultaneous reduction of another substrate are named as oxido-Reductase enzymes.

**Statement-II** : Enzymes are needed in large quantity for the progress of a reaction.

- (1) Statement I is incorrect but statement II is correct.  
 (2) Statement I is correct but statement II is incorrect  
 (3) Both statements I and statements II are incorrect.  
 (4) Both statements I and statements II are correct.

**48.** Read given statements

- (A) During denaturation,  $2^\circ$  &  $3^\circ$  structures of proteins are not destroyed.  
 (B)  $1^\circ$  structure of protein is destroyed during denaturation.  
 (C) Curdling of milk which is caused due to formation of lactic acid by bacteria present in milk is an example of denaturation.

Which statement(s) is/are incorrect in given options -

- (1) A, C only                      (2) A, B only  
 (3) A, B, C                        (4) B, C only

**49.** Which of the following are addition copolymers?

- A. Polyacrylonitrile              B. Nylon - 6  
 C. Buna - S                         D. Buna - N  
 (1) A, C, D                         (2) A, B, D  
 (3) C and D                         (4) B and C

**50.** Match the column

Column - I (Polymer)		Column - II (Type of Polymer)	
(a)	Low density polythene	(p)	Addition homopolymer
(b)	Nylon - 6	(q)	Addition copolymer
(c)	Dacron	(r)	Condensation homopolymer
(d)	Buna-S Rubber	(s)	Condensation copolymer

- (1) a - p, b - s, c - q, d - r  
 (2) a - p, b - r, c - s, d - q  
 (3) a - q, b - s, c - r, d - p  
 (4) a - q, b - r, c - p, d - s

**51.** Match the column

Column - I (Polymer)		Column - II (Monomeric unit)	
(a)	Nylon - 6	(p)	Terephthalic acid
(b)	Dacron	(q)	Styrene
(c)	Buna - S	(r)	Cellulose acetate
(d)	Rayon	(s)	Caprolactum

- (1) a - s, b - p, c - q, d - r  
 (2) a - s, b - q, c - r, d - p  
 (3) a - p, b - r, c - s, d - q  
 (4) a - p, b - s, c - q, d - r

**52.** Match the column

Column - I (Polymer)		Column - II (Uses of polymer)	
(a)	Polytetra Fluoroethene	(p)	In making commercial fibers
(b)	High density polythene	(q)	Tyre cords, Fabrics, ropes
(c)	Nylon - 6	(r)	Non-stick surface coated utensils
(d)	Poly acrylonitrile	(s)	Dustbins, buckets, pipes

- (1) a - p, b - q, c - r, d - s  
 (2) a - p, b - r, c - s, d - q  
 (3) a - r, b - s, c - q, d - p  
 (4) a - r, b - p, c - s, d - q

53. Given below are two statements:

**Statement I** : Teflon is chemically inert and not resistant to attack by corrosive reagents.

**Statement II** : Teflon is used in making oil seals and gaskets and also used for non-stick surface coated utensils.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement – I is correct and statement – II is incorrect.
- (2) Statement – I and statement – II both are correct.
- (3) Statement – I and statement – II both are incorrect.
- (4) Statement – I is incorrect and statement – II is correct.

54. Given below are two statements; one is labelled as **Assertion (A)** and the other is labelled as **Reason(R)**.

**Assertion** : HDP is chemically inert and tough but flexible and a poor conductor of electricity.

**Reason** : HDP is used in insulation of electricity carrying wires and manufacture of squeeze bottles, toys and flexible pipes.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (1) Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- (2) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (3) (A) is correct but (R) is not correct.
- (4) (A) is not correct but (R) is correct.

55. Given below are two statements:

**Statement-I** : The polymers made by addition polymerisation from two different monomers along with elimination of small molecules like  $H_2O$ ,  $HCl$  etc., are termed as homopolymers.

**Statement-II** : The addition polymers formed by the polymerisation of a single monomeric species are known as copolymers.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement-I is correct and statement-II is incorrect.
- (2) Statement-I and statement-II both are incorrect.
- (3) Statement-I is incorrect and statement-II is correct.
- (4) Statement-I and statement-II both are correct.

56. Given below are two statements:

**Statement I**: High density polythene is linear polymer.

**Statement II**: HDP formed when addition polymerisation of ethene takes place in hydrocarbon solvent in presence of Ziegler Natta catalyst at temperature below  $300K$  and under pressure of 6-7 atmospheres.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement-I is correct and statement-II is incorrect.
- (2) Statement-I and statement-II are incorrect.
- (3) Statement-I and statement-II are correct.
- (4) Statement-I is incorrect while statement-II is correct.

57. Given below are two statements:

**Statement-I**: The formation of terylene or dacron by interaction of ethylene glycol and terephthalic acid is an example of condensation polymerisation.

**Statement-II** : Poly condensation reactions may result in the loss of simple molecules as water, alcohol, hydrogen chloride etc. and lead to formation of high molecular mass condensation polymer.



63. Match the column- I & II.

Column - I		Column - II	
(a)	Natural rubber	(p)	Copolymer of 1,3-butadiene
(b)	Vulcanisation of rubber	(q)	Free radical polymerisation of chloroprene
(c)	Buna-S rubber	(r)	Cis-1,4 polyisoprene
(d)	Neoprene	(s)	Mixing of sulphur

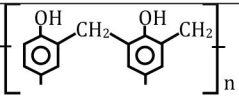
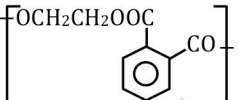
(1) a - s, b - r, c - p, d - q

(2) a - r, b - s, c - p, d - q

(3) a - r, b - p, c - q, d - s

(4) a - q, b - s, c - p, d - q

64. Match the column - I & II

Column - I Monomer		Column - II Polymeric structure	
(a)	Styrene	(p)	$[\text{NHCO-NH-CH}_2]_n$
(b)	Urea + formaldehyde	(q)	
(c)	Phenol + formaldehyde	(r)	
(d)	Ethylene glycol + phthalic acid	(s)	$[\text{CH}_2-\text{CH}(\text{Ph})]_n$

(1) a - s, b - q, c - p, d - r

(2) a - r, b - p, c - q, d - r

(3) a - s, b - p, c - q, d - r

(4) a - q, b - s, c - r, d - p

65. Match column I & II.

Column - I Polymer		Column - II Uses	
(a)	Polypropene	(p)	Manufacture of Raincoat, Handbags
(b)	PVC	(q)	Making ropes, toys, pipes & fibres
(c)	Glyptal	(r)	Making unbreakable cups & laminated sheets

(d)	Urea formaldehyde Resin	(s)	Making paints & lacqueres
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(1) a - s, b - r, c - p, d - q

(2) a - q, b - r, c - p, d - s

(3) a - r, b - s, c - q, d - p

(4) a - q, b - p, c - s, d - r

66. **Assertion:** Buna - N is an example of copolymer.

**Reason :** It is obtained by the polymerisation of 1, 3-Butadiene & acrylonitrile in the presence of peroxide catalyst.

(1) Assertion & reason both are true & reason is a correct explanation of the assertion.

(2) Assertion & reason both are true but reason is not a correct explanation of the assertion.

(3) If both assertion & reason are false.

(4) If both assertion is true but reason is false.

67. Bacteriostatic antibiotics are-

(A) Penicillin

(B) Erythromycin

(C) Chloramphenicol

(D) Ofloxacin

(1) A and D are correct

(2) B and C are correct

(3) A, B and C are correct

(4) A, C and D are correct

68. Match the column

Column-I		Column-II	
(a)	Norethindrone	(p)	broad spectrum antibiotic
(b)	Prontosil	(q)	narrow spectrum antibiotic
(c)	Vancomycin	(r)	anti-bacterial agent
(d)	Penicillin-G	(s)	antifertility drugs

(1) a - s, b - q, c - p, d - r

(2) a - p, b - r, c - q, d - s

(3) a - p, b - s, c - q, d - r

(4) a - s, b - r, c - p, d - q

69. Match the column

Column-I (Artificial Sweetring agents)		Column-II	
(a)	Sucralose	(p)	High potency sweetner
(b)	Alitame	(q)	Ortho-sulphobenzimide
(c)	Aspertame	(r)	Stable at cooking temperature
(d)	Saccharin	(s)	Unstable at cooking temperature

(1) a - q, b - p, c - r, d - s

(2) a - r, b - p, c - s, d - q

(3) a - r, b - s, c - p, d - q

(4) a - q, b - s, c - r, d - p

70. Match the column

Column-I		Column-II	
(a)	Anionic detergent	(p)	Tri sodium phosphate
(b)	Cationic detergent	(q)	Cetyl trimethyl ammonium bromide
(c)	Non-ionic detergent	(r)	Sodium dodecyl benzene sulphonate
(d)	Builders	(s)	Stearic acid react with poly ethylene glycol

(1) a - r, b - s, c - q, d - p

(2) a - s, b - q, c - r, d - p

(3) a - r, b - q, c - s, d - p

(4) a - q, b - r, c - p, d - s

71. Given below are two statements; one is labelled as **Assertion (A)** and the other is labelled as **Reason(R)**.

**Assertion:** Salvarsan is medicine of syphilis. But it is toxic to human beings.

**Reason:** Salvarsan contains arsenic which is toxic.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

(1) Both (A) and (R) are correct and (R) is the correct explanation of (A).

(2) Both (A) and (R) are correct but (R) is not the correct explanation of (A).

(3) (A) is correct but (R) is not correct.

(4) (A) is not correct but (R) is correct.

72. Given below are two statements:

**Statement-I:** Sulphur dioxide and sulphite are useful antioxidants for wine and bear, sugar, syrups and cuts, peeled or dried fruits and vegetables

**Statement-II:** Antioxidants help in food preservation by retarding action of oxygen on food. These are less reactive towards oxygen than the food material they are protecting.

In the light of the above statements, choose the most appropriate answer from the options given below:

(1) Statement-I and Statement-II both are correct.

(2) Statement-I and Statement-II both are incorrect.

(3) Statement-I is correct and Statement-II is incorrect.

(4) Statement-I is incorrect and Statement-II is correct.

73. Given below are two statements:

**Statement-I:** Mechanism of cleansing action of non-ionic detergents is same as that of soaps. These also remove grease and oil by micelle formation.

**Statement-II:** In anionic detergents the anionic part of molecule is not involved in the cleansing action

In the light of the above statements, choose the most appropriate answer from the options given below:

(1) Statement-I and Statement-II both are correct.

(2) Statement-I and Statement-II both are incorrect.

(3) Statement-I is correct and Statement-II is incorrect.

(4) Statement-I is incorrect and Statement-II is correct.

74. Given below are two statements:  
**Statement-I:** All soaps are made by boiling fats or oils with suitable insoluble hydroxide.  
**Statement-II:** That float in water are made by beating tiny air bubbles before their hardening.  
 In the light of the above statements, choose the most appropriate answer from the options given below:  
 (1) Statement-I is correct and Statement-II is incorrect.  
 (2) Statement-I is incorrect Statement-II is correct.  
 (3) Statement-I and Statement-II both are correct.  
 (4) Statement-I and Statement-II both are incorrect.
75. Given below are two statements:  
**Statement-I:** Chlorine in the concentration of 0.2 to 0.4 ppm in aqueous solution and sulphur dioxide in very low concentrations, are disinfectants.  
**Statement-II:** Iodoform is used as an antiseptic for wounds while boric acid in dilute aqueous solution is weak antiseptic for eyes.  
 In the light of the above statements, choose the most appropriate answer from the options given below:  
 (1) Statement-I is correct while Statement-II is incorrect.  
 (2) Statement-I and Statement-II is incorrect.  
 (3) Statement-I is incorrect & Statement-II is correct.  
 (4) Statement-I and Statement-II are correct.
76. Given below are two statements:  
**Statement-I:** Tranquilizers & Analgesics are neurologically active drugs.  
**Statement-II:** Noradrenaline is one of the Neurotransmitters that play a role in mood changes.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement-I is correct but Statement-II is incorrect.  
 (2) Both Statement-I and Statement-II are correct.  
 (3) Both Statement-I and Statement-II are incorrect.  
 (4) Statement-I is incorrect but Statement-II is correct.
77. Match the column

	Column-I (Drug)	Column-II (Drug Action)
(a)	Antacid	(p) Phenelzine (Nardil)
(b)	Antihistamine	(q) Zantac
(c)	Tranquilizers	(r) Morphine
(d)	Analgesic	(s) Dimetapp

Choose the correct options-

- (1) a - q, b - p, c - r, d - s  
 (2) a - q, b - s, c - p, d - r  
 (3) a - r, b - q, c - s, d - p  
 (4) a - s, b - r, c - p, d - q
78. Given below are two statements:  
**Statement-I:** Antacids are used in the treatment of Nasal congestion associated with common cold.  
**Statement-II:** Cimetidine is an example of Antacid.  
 In the light of the above statements, choose the most appropriate answer from the options given below:  
 (1) Statement-I is incorrect but Statement-II is correct.  
 (2) Statement-I is correct but Statement-II is incorrect.  
 (3) Both Statement-I and Statement-II are incorrect.  
 (4) Statement-I and Statement-II are correct.

79. Match the column

Column-I		Column-II	
(a)	Drug	(p)	Genetic information
(b)	Enzymes	(q)	Use of chemical for therapeutic effect
(c)	Nucleic acids	(r)	Biological catalyst like proteins
(d)	Chemotherapy	(s)	Intract with macromolecular targets & biological response

Choose the correct combination-

- (1) a - q, b - r, c - s, d - p
- (2) a - s, b - r, c - p, d - q
- (3) a - r, b - p, c - q, d - s
- (4) a - s, b - p, c - s, d - q

80. Given below are two statements:

**Statement-I:** Some drugs don't bind to the enzymes active site.

**Statement-II:** These bind to a different site of enzyme which is called allosteric site.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Both Statement-I and Statement-II are incorrect.
- (2) Statement-I and Statement-II are correct.
- (3) Statement-I is correct but Statement-II is incorrect.
- (4) Statement-I is incorrect but Statement-II is correct.

81. Given below are two statements:

**Statement-I:** Classification based on pharmacological effect of the drug is useful for treatment of a particular type of problem.

**Statement-II:** Analgesics have pain killing effect.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement-I is correct but Statement-II is incorrect.
- (2) Statement-I is incorrect but Statement-II is correct.
- (3) Statement-I and Statement-II are correct.
- (4) Statement-I and Statement-II are incorrect.

82. Given below are two statements; one is labelled as **Assertion (A)** and the other is labelled as **Reason(R)**.

**Assertion:** Binding of inhibitor at allosteric site changes the shape of active site in such way that substrate cannot recognise it.

**Reason:** Some drugs do not bind to the enzymes active site these bind to a different site of enzyme. Which is called allosteric site.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (1) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- (3) (A) is correct but (R) is not correct.
- (4) (A) is not correct but (R) is correct.

83. (a) Aspirin  
(b) Morphine  
(c) Codeine  
(d) Seldane

In above identify correct narcotic drugs combination in following option:

- (1) a, b, c
- (2) b, c, d
- (3) a, c, d
- (4) only b, c

84. Match the column

Column-I (Drug)		Column-II (Function)	
(a)	Iproniazid	(p)	Anti blood clotting
(b)	Equanil	(q)	Anti depressant drug
(c)	Barbiturates	(r)	Control hypertension & Depression
(d)	Aspirin	(s)	Hypnotic

(1) a - q, b - r, c - s, d - p

(2) a - r, b - s, c - q, d - r

(3) a - q, b - s, c - p, d - r

(4) a - r, b - q, c - s, d - q

## EXERCISE-III (Analytical Questions)

## ANSWER KEY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer	4	1	1	4	3	4	4	3	1	3	2	2	3	4	3
Question	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Answer	1	2	1	4	2	4	4	4	4	1	4	2	3	2	4
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Answer	2	2	3	4	2	3	2	1	4	2	1	3	2	1	4
Question	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Answer	3	3	2	3	2	1	3	4	3	2	1	1	1	2	2
Question	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Answer	4	1	2	3	4	1	2	4	2	3	1	3	3	2	4
Question	76	77	78	79	80	81	82	83	84						
Answer	2	2	1	2	2	3	1	4	1						