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1.Internal energy of a system is:

- A.State function*
- B.Path function
- C.Both state and path function
- D.None of the above

Ans:A

2.Born equation can be used for calculating:

- A.Made lungs constant
- B.Lattice energy of an ionic crystal
- C.Potential energy of an ionic crystal
- D.All the above*

Ans:D

3.Which of the following is correct for lyophilic sols?

- A.They are irreversible
- B.They are formed by inorganic substances
- C.They are readily coagulated by addition of electrolytes
- D.They are self stabilized*

Ans:D

4.Which of the following is a fully fluorinated polymer?

- A.Neoprene
- B.Teflon*
- C.Thiokol

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D.PVC

Ans:B

5.On hydrolysis one molecule of sucrose is converted in to:

A.Two molecules of glucose

B.Two molecules of fructose

C.Two molecules of glucose and one molecule of fructose

D.One molecule of glucose and one molecule of fructose*

Ans:D

6.According to Fajan's rule a covalent bond is favoured by

A.Small cation and small anion

B.Large cation and large anion

C.Small cation and large anion*

D.Large cation and small anion

Ans:C

7.The Dipole moment of carbon dioxide molecule is:

A.Zero*

B.One

C.Two

D.Three

Ans:A

8.Which of the following metals can occur in nature in the free state?

A.Potassium

B.Gold*

C.Titanium

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D.Aluminium

Ans:B

9.An alloy containing nickel is:

A.German silver*

B.Brass

C.Gun metal

D.Bronze

Ans:A

10.Ultra pure metal can be prepared by:

A.Electrolytic refining

B.Zone refining*

C.Oxidative refining

D.Smelting

Ans:B

11.Which among the following does not belong to the category of science?

A.Astronomy

B.Astrology*

C.Geology

D.Computer Science

Ans:B

12.Hydrogen was discovered by:

A.Henry Cavendish*

B.Joseph Black

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C.G.N.Lewis

D.Antoine Lavoisier

Ans:A

13.The first known organic compound synthesized was:

A.Acetic acid

B.Urea*

C.Cane sugar

D.Glucose

Ans:B

14.Cyclo hexane is a -----compound

A.Aliphatic

B.Aromatic

C.Hetero cyclic

D.Alicyclic*

Ans:D

15.The most electro negative element is:

A.Oxygen

B.Nitrogen

C.Flourine*

D.Boron

Ans:C

16.On moving down a group first ionization energy:

A.Increases

B.Decreases*

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C.Increases then decreases

D.Remains the same

Ans:B

17.Which among the following has maximum ionizing power?

A.Alpha rays

B.Beta rays

C.Gamma rays*

D.Cathode rays

Ans:C

18.Which is not an oxygen carrier?

A.Haemoglobin

B.Haemerythrin

C.Haemocyanin

D.Myoglobin*

Ans:D

19.Radiant energy of Sun is due to:

A.Disintegration

B.Combustion

C.Nuclear Fission

D.Nuclear fusion*

Ans:D

20.From left to right along the second period in the long form of the periodic table the electronegativity

A.Increases*

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- B.Decreases
- C.Fluctuates
- D.Remains the same

Ans:A

21.The nuclear magnetic resonance spectra lies within:

- A.Infra red region
- B.Visible or ultra violet region
- C.Radio wave region*
- D.Micro wave region

Ans:C

22.The isotones contains the same number of:

- A.Neutrons*
- B.Protons
- C.Electrons
- D.Both A and B same

Ans:A

23.Alkyl halides may be prepared from alcohols by the action of:

- A.Phosphorous halides
- B.Halogen acids
- C.Thionyl chlorides
- D.All of these*

Ans:D

24.Intermediate in a pericyclic reaction is:

- A.Carbocation
- B.Radical

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C.Carbanion

D.None of these*

Ans:D

25.Which of the following can act as a phase transfer catalyst?

A.Pinacol

B.Pinacolone

C.Crown ether*

D.Ethylene oxide

Ans:C

26.A species which can both absorb and transfer radiant energy for activation of the reactant molecule is called:

A.Radio active substance

B.An ionizer

C.A photo chemical substance

D.A photo sensitizer*

Ans:D

27.Ziesels method is used for the estimation of:

A.Hydroxyl group

B.Methoxy group*

C.Phenoxy group

D.Ethyl group

Ans:B

28.Shift of Absorption to longer wavelength is called:

A.Hyposochromic shift

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B.Hyper chromic shift

C.Hypochromic shift

D.Batho chromic shift*

Ans:D

29.That part of a molecule which absorbs electro magnetic radiation is called

A.Chromophore*

B.Auxochrome

C.Absorber

D.Activator

Ans:A

30.The ESR spectrum of methyl radical contains -----lines

A.2

B.3

C.4*

D.6

Ans:C

31.When some non volatile solute is added to a volatile solvent there is an increase in its:

A.Vapour pressure

B.Boiling point*

C.Freezing point

D.Osmotic pressure

Ans:B

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32.Which one of the following IM solutions will show the highest freezing point?

- A.Urea*
- B.Ammonium sulphate
- C.Sodium chloride
- D.Copper sulphate

Ans:A

33.Pattinsons process is used for the profitable removal of:

- A.Lead from lead monoxide
- B.Silver from argentiferrous lead*
- C.Lead from silver ore
- D.None of the above

Ans:B

34.A system consisting of one phase only is said to be:

- A.Monovariant
- B.Monomeric
- C.Homogeneous*
- D.Heterogeneous

Ans:C

35.Which among the following make use of Tyndall effect?

- A.Ultra Microscope*
- B.Dialyser
- C.Ultra Centrifuge
- D.Ultra filter

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Ans:A

36.Zeolites are used as:

- A.Ion exchangers
- B.Molecular sieves
- C.Shape selective catalyst
- D.All the above*

Ans:D

37.The number of atoms per unit cell in a simple cubic,FCC and BCC arrangement are respectively:

- A.8,14,9
- B.1,4,2*
- C.1,2,4
- D.4,1,2

Ans:B

38.Every colloidal system is:

- A.Homogeneous
- B.Heterogeneous*
- C.Contains one phase
- D.Homogeneous and Heterogeneous

Ans:B

39.Following is an Emulsifier:

- A.Oil
- B.Water
- C.Sodium Chloride

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D.Soap*

Ans:D

40.The sky appears blue.It is due to:

A.Reflection

B.Absorption

C.Scattering*

D.Refraction

Ans:C

41.In the hydrogenation of oils the catalyst used is:

A.Iron

B.Platinum

C.Nickel*

D.Molybdenum

Ans:C

42.Starch is converted into disaccharide in the presence of:

A.Diastase*

B.Maltase

C.Lactase

D.Zymase

Ans:A

43.With rise in temperature surface tension of the liquid:

A.Increases

B.Decreases*

C.Remains constant

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D.Sometimes increases and sometimes decreases

Ans:B

44.The temperature at which second virial coefficient of a real gas is zero is called:

A.Critical temperature

B.Eutectic temperature

C.Boyle temperature*

D.Boiling point

Ans:C

45.Which among the following is a chelating ligand?

A.Oxalate ion*

B.Carbon monoxide

C.Pyridine

D.Cyanide ion

Ans:A

46.Which is not a zinc containing enzyme?

A.Carboni anhydrase

B.Carboxy peptidase

C.Alcohol dehydrogenase

D.Ribo nucleotide reductase*

Ans:D

47.Which among the following constitute a nano system confined in one dimension?

A.Nano layer*

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B.Nano wire

C.Nano tube

D.Nano particle

Ans:A

48.Nutrients required by plants in relatively large amounts are called:

A.Macro nutrients *

B.Micro nutrients

C.Indirect fertilizers

D.Manure

Ans:A

49.The secondary valency of a metal ion in Werner's theory corresponds to:

A.Oxidation state

B.Charge

C.Co-ordination number*

D.None of these

Ans:C

50.Which among the following is used for estimating nickel?

A.Pottasium ferrocyanide

B.Dimethyl glyoxime*

C.Sodium polymeta phosphate

D.Methyl orange

Ans:B

51.Which among the following is regenerated cellulose?

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- A.Rayon*
- B.Glycogen
- C.Dacron
- D.Glyptal

Ans:A

52.Which among the following is most stable conformer of cyclohexane?

- A.Boat
- B.Chair*
- C.Gauche
- D.Eclipsed

Ans:B

53.Geraniol is a :

- A.Monoterpenoid*
- B.Sesqui terpenoid
- C.Diterpenoid
- D.Triterpenoid

Ans:A

54.Bakelites are-----polymers.

- A.Linear
- B.Branched chain
- C.Cross linked*
- D.Natural

Ans:C

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55.Which among the following is an aromatic amino acid?

- A.Glycine
- B.Alanine
- C.Phenyl alanine*
- D.Aspartic acid

Ans:C

56.Which among the following bases is not commonly found in DNA?

- A.Uracil*
- B.Thymine
- C.Adenine
- D.Cytosine

Ans:A

57.Water molecule can have -----number of modes of vibration

- A.2
- B.3*
- C.4
- D.0

Ans:B

58.The chief constituents of essential oils are:

- A.Terpenes*
- B.Alkaloids
- C.Steroids
- D.Esters

Ans:A

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59.The solvent used in dry cleaning clothes is:

- A.Alcohol
- B.Acetone
- C.Carbontetra chloride*
- D.Freon

Ans:C

60.Chemically banana oil is:

- A.Iso amyl acetate*
- B.Ethyl butyrate
- C.Octyl acetate
- D.Mixture of hydrocarbons from banana leaves

Ans:A

61.Electrophilic reagents are:

- A.Electron pair donars
- B.Lewis acids*
- C.Odd electron molecules
- D.None of above

Ans:B

62.Carbonion is isostructural with:

- A.Free radicals
- B.Carbonium ion
- C.Ammonia*
- D.Carbene

Ans:C

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63.The latest technique used for purification of organic compounds is:

- A.Chromatography*
- B.Vaccum distillation
- C.Fractional distillation
- D.Crystallization

Ans:A

64.The technique of gas chromatography is suitable for compounds which are:

- A.Liquids
- B.Highly volatile
- C.Soluble in water
- D.Vapourise with decomposition*

Ans:D

65.The laughing gas is:

- A.Nitrous oxide*
- B.Nitric oxide
- C.Nitrogen trioxide
- D.Nitrogen pentoxide

Ans:A

66.In the manufacture of iron from hematite limestone acts as:

- A.Slag
- B.Gangue
- C.Flux*
- D.Reducing agent

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Ans:C

67.Deep sea divers used to respire in a mixture of:

- A.Oxygen and Nitrogen
- B.Oxygen and helium*
- C.Hydrogen and nitrogen
- D.Oxygen and hydrogen

Ans:B

68.Nuclear fusion produces:

- A.Argon
- B.Deuterium
- C.Helium*
- D.Krypton

Ans:C

69.If a refrigerator door is opened,then we get:

- A.Room heated*
- B.Room cooled
- C.More heat is passed out
- D.No effect on room

Ans:A

70.Upon mixing pure water with sodium carbonate its pH becomes:

- A.Increases*
- B.Decreases
- C.Remains constant
- D.First increases then decreases

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Ans:A

71.The pH value of a buffer solution after dilution:

- A.Decreases
- B.Increases
- C.No change*
- D.First increases then remains constant

Ans:C

72.Glow of phosphorus is due to:

- A.Chemiluminescence
- B.Photo sensitization
- C.Fluroescence
- D.Phosphorescence*

Ans:D

73.Rust is chemically:

- A.Hydrated ferrous oxide
- B.Hydrated ferric oxide*
- C.Ferrous carbonate
- D.Ferrous oxide

Ans:B

74.The experimental evidence for the particle nature of light was provided by:

- A.Reflection
- B.Diffraction*
- C.Photoelectric effect

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D.All of these

Ans:B

75.The ring system in cyano cobalamine is called:

A.Pophyrin

B.Tetra pyrrole

C.Corrin*

D.Purine

Ans:C

76.Which of the following is phenolic acid?

A.Carbolic acid

B.Salicylic acid*

C.Cinnamic acid

D.Stearic acid

Ans:B

77.The hydroxyl acid among the following is:

A.Citric acid*

B.Phthalic acid

C.Malonic acid

D.Succinic acid

Ans:A

78.Which of the following does not undergo Cannizaro's reaction?

A.Benzaldehyde

B.2-methyl propanal*

C.p-methoxy benzaldehyde

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D.Formaldehyde

Ans:B

79.Tertiary alkyl halides are practically inert to substitution by S_N2 mechanism because of:

A.Insolubility

B.Instability

C.Inductive effect

D.Steric hinderance*

Ans:D

80.Williamson's synthesis is used for the synthesis of:

A.Aldehyde

B.Acids

C.Ethers*

D.Alcohols

Ans:C

81.The greater-----of the carbon-metal bond,the greater the reactivity of the organometallic compound.

A.Bond strength

B.Bond length

C.Polarity*

D.Covalent character

Ans:C

82.Solutions with same osmotic pressure at a given temperature are called

A.Ideal solutions

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B.Saturated solutions

C.Isotropic solutions

D.Isotonic solutions*

Ans:D

83.A liquid rises in a capillary tube.It is due to:

A.Surface tension*

B.Osmosis

C.Effusion

D.Viscosity

Ans:A

84.The third law of thermodynamics helps in the calculation of:

A.Enthalpy changes

B.Free energy changes

C.Internal energy changes

D.Absolute entropies*

Ans:D

85.Which obey Max Well-Boltz mann distribution?

A.Electronics in an atom

B.Molecules in an ideal gas*

C.Protons and neutrons in the nucleus of an atom

D.Beta particle emerging from a radioactive substance

Ans:B

86.Which compound is considered as anti aromatic?

A.Cyclo octa tetraene

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B.Azulene

C.Ferrocene

D.Cyclo butadiene*

Ans:D

87.Acidity of chloro acetic acid is greater than that of acetic acid due to:

A.Inductive effect*

B.Electrometric effect

C.Mesomeric effect

D.Sterric effect

Ans:A

88.Which of the following imparts brick red colour to the flame?

A.Calcium *

B.Barium

C.Stroncium

D.None of these

Ans:A

89.The hemolytic fission of a chemical bond result in the formation of:

A.Carbo cation

B.Carbanion

C.Free radicals*

D.Carbenes

Ans:C

90.Which among the following has highest energy?

A.UV radiations

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B.X-rays*

C.IR radiations

D.Visible radiations

Ans:B

91.The uncertainty principle was first stated by:

A.Albert Einstein

B.Max Planck

C.W Heisenberg*

D.Neils Bohr

Ans:C

92.A molecule is said to be chiral if it has:

A.Plane of symmetry

B.Centre of symmetry

C.Axis of symmetry

D.No element of symmetry*

Ans:D

93.Which of the following is a sandwich compound?

A.Tetra ethyl lead

B.Try methyl Arsine

C.Ethyl magnesium bromide

D.Ferrocene*

Ans:D

94.Conformational isomerism arises because of:

A.Restricted rotation

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B.Free rotation about carbon single bond*

C.Clockwise rotation

D.Anti clockwise rotation

Ans:B

95.The number of optical isomers in the case of glucose are:

A.8

B.12

C.16*

D.20

Ans:C

96.Amino acids are the binding blocks of:

A.Proteins*

B.Carbohydrates

C.Vitamins

D.Fats

Ans:A

97.Natural fibre among the following is:

A.Starch

B.Cellulose*

C.Nylon-6

D.Teflon

Ans:B

98.As temperature increases the rate of the reaction:

A.Decreases then increases

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B.Decreases

C.Increases*

D.Stays the same

Ans:C

99.Square root of the mean of the squares of the different velocities of the gas molecules is called:

A.Average velocity

B.Root mean square velocity*

C.Most probable velocity

D.None of the above

Ans:B

100.Evaporation of water from a beaker represents an example for:

A.Closed system

B.Open system*

C.Isolated system

D.Macroscopic system

Ans:B