



11. Which is applicable for toluene?
A. It is a fragrant liquid
B. In nitration reaction toluene is 25 multiple active than benzene
C. Toluene is used to synthesis benzyle alcohol
D. All of the above ✓
12. Which is incorrect?
A. In the area of a plane is 'A' and the acting perpendicular force on it be 'F' then stress = $\frac{A}{F} \sqrt{\quad}$
B. The elementary difference division number is 180 for both Celcicus and Rankin scale ✓
C. The particles which have active nuclear force are exchanged between two nucleus and produce active nucleon force, are called meson
D. A force acts on a rest particle having 4 kg mass. As a result the particle posses the velocity 30m/sec in 6 sec. So, the value of force= 20N
13. Which is incorrect?
A. The chromatide in chromosome which is formed in the initial stage of interphase of mitosis division is called monad.
B. Though lower class plants, new chloroplast is formed from chloroplast in case of higher class plant it is formed from plastid.
C. Each member of a per anth is called tepal.
D. The flavoprotein nanted correlated engyme's co-engyme is called ATP ✓
14. Choose the sentence which is correct?
A. That so many advances have been made in such short time is the most valid argument for retaining the research unit.
B. That so many advances have been made in such short time is the most valid argument for retaining the research unit.
C. That so many advances have been made in so short time is the most valid argument for retaining the research unit.
D. That so many advances have been made in so short time is the most valid argument of retaining the research unit.
15. Which is wrong?
A. In each chain of tariline contains so numbers of ester.
B. The function of fats or lipids and aminino acid are to supply energy and build up body respectively.
C. Polar or ionic relation is restricted by free radical. ✓
D. Each nitrate salts are soluble in water.
16. What is not the function of hypothalamus?
A. Vasopracine and Oxytosls named two neurohormon's are secrated directly and stored in the pituitary gland.
B. Control the rate of normal respiration and act as the centre of emotion, excitement etc ✓
C. Act as the main centre of emotion, excitement etc.
D. Act as the centre of voluntary nurvus centre.
17. Which is incorrect?
A. At critical temperature the surface tension of a liquid is zero.
B. In which section of a longitudinal wave is in expansion has an maximum pressure and density. ✓
C. The magnitude of acting force on a particle at any time is proportional to the magnitude of displacement from equilibrium and opposite.
D. The graphical representation of longitudinal wave is a sine curve.
18. Which is correct?
A. The atomic radii of potasium is smaller than sodium ✓
B. Bi-Carbonet Carbonic acid buffer is present in blood.
C. Transition elements act as catalyst.
D. Volatile elements remain in higher proportion in produced vapor when an ideal liquid mixture is heated.
19. Which of the following statement is right?
A. Average life of Radium is 2341 yrs. It's decay constand is equal to $4.27 \times 10^{-4} \text{ yr}^{-1}$ ✓
B. The working function of 'K' is 2.00 eV. The thresold frequency of it is 4.83Hz.
C. The electrons of conduction band are not free.
D. All of the above.
20. Which is wrong?
A. The reagent which donate electrons in a reaction are called electrophilic reagent ✓
B. Amilopectine takes red color with iodine.
C. $\text{C}_6\text{H}_5\text{-Br} \xrightarrow[\text{THF}]{\text{Mg}} \text{C}_6\text{H}_5\text{MgBr} \xrightarrow[\text{H}_2\text{O/H}^+]{\text{CO}_2} \text{C}_6\text{H}_5\text{COOH}$
D. The mixture of organic liquid can be purified by solvent extraction.





21. Which is not the characteristic of prokaryotic cell?
- A. The cell division process is mitotic. Spindle is formed ✓
 - B. Perfect plastid is absent for photosynthesis. The simple organ named thylakoid remains scattered in the cytoplasm.
 - C. The structure is very simple.
 - D. Nucleus is not definite exact and self-organ. Though it has DNA molecules, nuclear membrane and nucleolus are absent.
22. Which is not correct?
- A. According to the newspaper, he accepted bribes which a high official of the government.
 - B. According to the newspaper, he accepted bribes when he was a high official of the government ✓
 - C. According to the newspaper, he accepted bribes when a high official of the government.
 - D. According to the newspaper, he accepted bribes while he was a high official of the government ✓
23. Which one is incorrect?
- A. Inelastic friction conserves momentum but not kinetic energy. ✓
 - B. If a bigger particle hits a smaller particle, then actually the bigger particle's velocity remain constant but the smaller one moves with the velocity of bigger one.
 - C. If no force is applied from outside then the total momentum of a system remains constant after a friction.
 - D. When meteorite collide with the earth it burns. It is fully an inelastic friction.
24. Which is not applicable for oogenesis?
- A. One oogonium creates four active ovum ✓
 - B. Being an adult ovum instantaneously obtain the power of fertilization.
 - C. The primordial reproductive cells, separated from zerminal appithelium produces ovum.
 - D. Several membranes are found around a full-grown ovum.
25. Which of the following is correct for the uses of indicator in titration?
- A. Methyl red is used in the titration of weak acid and strong base.
 - B. Any indicator is used in the titration of strong acid and strong base. ✓
 - C. Phenolphthalin is used in titration of strong acid and weak base.
 - D. Thymol blue is used in titration of weak acid and weak base.
26. Which is correct?
- A. Gravitational acceleration 'g' is constant.
 - B. If the magnitude 'g' is a constant.
 - C. Frictional force depends on the area of touching place.
 - D. When 60 N force acts on a rest mass of 2 kg for 2 sec than its acceleration is 12 ms^{-2}
27. Each unit cell of lattice has -
- A. Eight angles, twelve sides, six planes. ✓
 - B. Four angles, six sides, three planes.
 - C. Eight angles, six sides, three planes.
 - D. Four angles, twelve sides, six planes.
28. Which of the following is correct for a semiconductor?
- A. The conduction band is almost vacuum and valance energy band is almost full. ✓
 - B. Have a lot of free electrons.
 - C. Valance energy band is almost vacuum and conduction band is almost full.
 - D. Valance band and conduction band energy gap is about 6 ev to 15 ev.
29. The enzymes that connect two or more substrates to form new compounds with the help of ATP are called-
- A. Oxidation-reduction enzymes.
 - B. Alternation enzymes.
 - C. Isomerase.
 - D. Conjugate enzymes ✓
30. Beneath the incomplete sentence there are four words or phrases. Choose the one word or phrase that best completes the sentence. It might be interesting to note that under many circumstances, the salary of a bus driver is much higher.
- A. than a teacher.
 - B. Compared as a teacher.
 - C. in comparison with the salary of a teachers.
 - D. than that of a teacher ✓
31. The oxidation number of vanadium in oxovanadium (VO_2^+)- oxovanadium are
- A. +5, +3
 - B. +3, +2
 - C. Both has the oxidation number +5
 - D. +4, +5 ✓
32. Harderian gland is present in-
- A. Adrenal
 - B. Small intestine
 - C. Pancreas
 - D. Eyes ✓





- C. If one end of a thermocouple is kept 0°C and the heat of the another end is increased then the thermal emf V vs temperature graph will be an ellipse.
- D. The neutral temperature is constant for a thermocouple but the temperature of inversion is not depend on the temperature of cold junction.
45. The aestivation of corolla is imbricate, back petals are small and inside. Due to this characteristics what will be the sub family of leguminosae family.
- A. Caesalpinioideae ✓
B. Mimosoideae
C. Cannot be identified
D. Papilionaceae.
46. The most appropriate translation of the following sentence "তুমি যা করেছ তার জন্য যদি দুঃখিত হও এবং এমন আর না করার জন্য যদি চেষ্টা কর তবে মানুষ খুব কমই তোমার সঙ্গে রাগ করবে অথবা শাস্তি দিবে" will be-
- A. If you are sorry for what you have done and try not to do so in the future. people will rarely become angry with you or punish you. ✓
B. If you are sorry for what you have done. and try not to do so any more. people will very seldom be angry with you or punish you.
C. You should regret for what you have done and try not to repeat any more and people will neither be angry nor punish you for your fault.
D. You should be sorry for what you have done and try not to do so any more. people will very seldom be angry with you or punish you.
47. Chemically, urea is called-
- A. Amide of Amino acid
B. Ammonium Carbonate
C. Di-amid of Carbonic acid ✓
D. Di-amino Carbon monoxide.
48. Which is incorrect?
- A. The adductor muscles of cockroach mandible have when they compressed the mandible comes to the inside.
B. The amount of protein in human milk is less than that of Cow-milk ✓
C. The spermatozoid can cover the distance of 1-4mm per second.
D. Though the tricuspid valve allow to enter blood in right auricle from right ventricle but it restrict to enter blood in right ventricle from right auricle.
49. In Antimony-Bismath thermocouple, the electricity flows through it
- A. At the cold junction antimony to bismath ✓
B. At the cold junction, bismath to antimony.
C. At the hot junction, antimony to bismath.
D. When both junction are equally heated.
50. In the synthesis of many organic compounds amines are used as-
- A. Neucleophile ✓ B. Neucleophil ✓
C. Neucleotide D. None of the above.
51. Which of the following is not the property of saturated vapour?
- A. Saturated vapour doesn't follow the Charles and Boyle's law.
B. Constant amount of saturated vapour will convert to unsaturated vapour with the increase of temperature.
C. Saturated vapour remains in equilibrium with its mother liquor.
D. Saturated vapour can be prepared in both open and closed area ✓
52. What is wrong?
- A. The mixture of alcohol with water is called the aqueous solution of alcohol
B. The oxidation number of CH_3Cl is +2 ✓
C. At same temperature and pressure equal volume of elementary and compound gas have same numbers of molecules
D. The first ionization potential of Boron is greater than that of Beriliun ✓
53. The venation of leaves are parallel, perianth are stem like and ovary has three chamber and superior, placentation is axile. According to the above characteristics, what is the family of this?
- A. Liguminosae B. Liliaceae ✓
C. Cruciferae D. Malvecae
54. The most appropriate translation of the following sentence "কামাল হোসেন ত্যাগ করতে ও পুরুষের মত স্বাধীনভাবে চলাফেরা করতে ও নিশ্বাস নিতে মহিলাদের উদ্বুদ্ধ করলেন" will be-
- A. Kamal inspired the women to give up their veils and become equal to their male counterpart.
B. Kamal inspired the women not to wear their veils and walk about and breathe freely to be treated the same way as men.
C. Kamal abandoned the women of their veils and walk about and breathe freely in the same way as men.
D. Kamal inspired the women to give up their veils and walk about and breathe freely in the same way as men ✓





55. Which of the following is incorrect?
 A. It is proved from Worsted experiment that magnetic field is formed around a current carrying wire.
 B. Escape velocity depends on the average density and radius of the sun.
 C. Hall voltage is proportional to the charge carrier per unit volume ✓
 D. In statical electricity an isolated charged conductor surface is an equipotential surface.
56. Which class is not involved in Rhizospora sub-phylum?
 A. Microsporidia B. Actinomyxida
 C. Mixosporidia D. Haplosporidia ✓
57. Which is not an example of reversible reaction?
 A. $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}(\text{s}) \xrightleftharpoons{\Delta} \text{CuSO}_4(\text{s}) + 5\text{H}_2\text{O}(\text{g})$
 B. $\text{CH}_3\text{COOC}_2\text{H}_5(\text{l}) + \text{H}_2\text{O}(\text{l}) \xrightleftharpoons{\Delta} \text{C}_2\text{H}_5\text{OH}(\text{l}) + \text{CH}_3\text{COOH}(\text{l})$
 C. $\text{NH}_4\text{Cl}(\text{s}) \xrightleftharpoons{\Delta} \text{NH}_3(\text{g}) + \text{HCl}(\text{g})$
 D. $2\text{KClO}_3(\text{s}) \xrightleftharpoons{\Delta} 2\text{KCl}(\text{s}) + \text{SO}_2(\text{g})$ ✓
58. Which is not true?
 A. Emf doesn't depend on resistance, but depends on chemical reaction
 B. A big pot of glass containing concentrated NH_4Cl solution in which a mercury coated zinc electrode is emerged, one kind of Leclanche cell is produced.
 C. In a dielectric medium, when the distance and the charge remains constant the attractive or repulsive force between them is less than that of in vacuum.
 D. The magnetic field on each point of a current carrying conductor axis will be zero ✓
59. Alcohol is formed when aqueous base react with alkali halides. What kind of reaction is this?
 A. Substitution reaction
 B. Transformation reaction ✓
 C. Addition reaction
 D. Joining reaction
60. Which is wrong?
 A. If a meter scale is thrown in the vacuum at $2.6 \times 10^8 \text{ ms}^{-1}$ along its length then its length will be 0.499m.
 B. The photographic plate near Uranium compound looks upset or foggy.
 C. The valance electrons in metal remains loosely bounded with nucleus
 D. When a charged particle is accelerated then no electromagnetic radiation is held. ✓
61. Which of the following is not the remarkable characteristics of dicotyledoneae stem?
 A. Endodermis is unlayered and pericycle is multilayered.
 B. Metaxylem is centre directed and protoxylem is circumference directed. ✓
 C. Hypodermis is build up by collenchyma
 D. Medullary ray is present in stellar region.
62. Which sentence is correct if we want to relate the cameras and the pictures they produce?
 A. Despite small size, this cameras take very good pictures.
 B. In spite of their small size, these cameras take very good cameras ✓
 C. In spite of its small size, these cameras take very good picture.
 D. These cameras are small but the pictures are of good quality.
63. Which is right?
 A. $\text{H}_3\text{C}-\text{CH}_2-\text{OH} + \text{SOCl}_2 \rightarrow \text{H}_3\text{C}-\text{CH}_2-\text{Cl} + \text{SO}_2 + \text{Cl}_2$
 B. For identification and separation of nucleic acid, paper chromatography is used. ✓
 C. As oxygen is more electro-positive than sulphur so hydrogen bond is formed in H_2S .
 D. At room temperature 1° alcohol, with Lucas reagent precipitated out.
64. An arthropoda has the following characteristics: three pair of leg, trachia, one pair of antenna and one pair of compound eyes. What is the possible class of it?
 A. Miriapoda B. Crustacea
 C. Insecta ✓ D. Arachnida
65. Which is not applicable for the frequency of a tuning fork.
 A. It is proportional to its arms width
 B. If temperature increase, the frequency also increase ✓
 C. It is inversely proportional to its arms length.
 D. It is inversely proportional to its density.
66. What is the period of the element having atomic number 16?
 A. 3rd period ✓ B. 2nd period
 C. 4th period D. 5th period





67. Which sentence is incorrect for an electric cell?
A. If the electrodes are large and nearer, the internal resistance will increase ✓
B. If the electrodes are large and nearer, the current will increase.
C. The electromotive force doesn't depend on the shape of electric cell.
D. The power of a cell depends on the element of it.
68. What is the formula of Crocoet?
A. $PbCrO_4$ ✓ B. PbO
C. $FeCr_2O_4$ D. $CuCl_3Cu(OH)_2$
69. Which of the following is not an aromatic amino acid?
A. Glycine ✓ B. Triptofan
C. Phenyl Alanine D. Tyrocine
70. Choose the correct answer:
.....discovery of insulin. It was not possible to treat diabetes.
A. Prior ✓ B. With the
C. After the D. Not finding the
71. The motion a watch is used as an example of-
A. Curved translatory motion
B. Transla-rotatory motion
C. Rotatory-motion ✓
D. Periodic motion ✓
72. What is the activity of massroom of cockroach?
A. Produces ovum in the molecular ovaries
B. The actual function of it is undefined
C. Spermatozoid is stored temporary
D. Nutrify the spermatozoid ✓
73. At the same temperature and pressure, through a same hole, the rate of effusion of one unknown gas and chlorine are 6:5 respectively. If the density of chlorine is 36. What will be the density and mole cular weight of it?
A. 24.48 B. 25.50 ✓
C. 12.24 D. 50.25
74. Battery is disconnected after charging a parallel plate capacitor. What will happen if the plates of the capacitor are kept away by an insulating handle?
A. The voltage between the two plates will increase.
B. The storage of electro-magnetic energy of the capacitor will increase.
C. Charge of the capacitor will increase.
D. Capacitance of the capacitor will increase ✓
75. One flask is full with hydrogen gas of 50L at 10 atm pressure. How many baloons can be filled of 2L volume with the gas at 2atm in each balloon? (Consiter in each case the temperature remain constant?)
A. 105 B. 90
C. 120 D. 125 ✓
76. How many joules of mechanical energy is produced when 15 calories of heat is fully converted to mechanical energy?
A. 62.70 J B. 62.80 J ✓
C. 60 J D. 62 J
77. Which is correct?
A. Water with mineral is secrated from hydathode of some monocotyledoneae's leaves vortex.
B. Body cell is divided by miotic process and help to increase the living body.
C. When the number of floral leaves is 3 or multiple of 3 in each cluster, then floral trimerus is formed.
D. For miosis division, haridetically the number of chromosome remain constant for any species and characteristics of species is maintained generation by generation.
78. Nepolian was defeated at water lou wear in 1815. Where is water lou?
A. Frence B. Germany
C. Belzium ✓ D. England
79. What is right characteristics of graphite?
A. Graphite is not a conductor of elect. ✓
B. Graphite soft and slippery and carbon atoms are co-planner ✓
C. Each carbon atom of graphite has sp^2 hybridization ✓
D. Comparatively, betn two layers of graphite have small space and so specific gravity of graphite is lower than that of diamond. ✓
80. By combining two arteries Innominent artery is formed, one of them is-
A. Axillary artery B. Subclavian artery
C. Cifalic artery D. Agigoes

