ETEA Medical 2019

1) The genome of influenza virus is made up of
a) single stranded RNA
b) double stranded RNA
c)single strand DNA
d) double stranded RNA

2) Galantammine hydrobromise is a compound derived from
a) cannabis b) Coca
c) english yew d) daffodil

3) Mark the correct match
a) haemophilia –blood cancer
b) SA node – pacemaker
c) ECG-Brain
d) alpha cell- insulin

4) Cells which kills cells that display foreign motifs on their surface are;
a) platelets b) cytotoxic t-cells
c) antigens d) red blood cells

5) Chitin is a:
a) lipoprotein b) polysaccharides
c) glycoprotein d) phospholipids

6) Organization of photosynthetic pigment into clusters is ;
a) photosyntheises
b) photosystem
c) photosynthetic cluster arrangements
d) calvin system

7) Amphibians are poikilotherms, therefore they use to hibernate in
a) winter b) summer
c) autumn d) spring

8) All of the following are macronutrient except
a) Cu ions b) Ca ions
c) Mg ions d) K ions

9) Sadia wore her rain boots;_____ her feet stayed dry during the storm.
a) however
b) therefore
c) on the other hand
d) still

10) Anum asked me,"did you see the drama on television, last night"
[choose the correct indirect speech]
a) Anum asked me wheather I saw the dram on television the earlier night.
b) Anum asked me wheather I had seen the drama on television the earlier night.
c) Anum asked me did I see the drama on television the last night.
d) Anum asked me wheather I had seen the drama on television last night.

11) A molecule which contains two lone pairs and two bond pairs of electrons in valence shell of central atom, geometrical shape of molecules will be;
a) tetrahedral
b) triognal pyramidral
c) angular
d) linear

12) Quantum number which describes the orientation of orbitals in three dimensional space is
a) spin quantum number
b) azimuthal quantum number
c) magnetic quantum number
d) principal quantum number

13) Which one of the following gas has the highest rate of diffusion at same temperature and pressure?
a) HCl. b) CO2
c) C2H2 d) C2H6

14) At higher altitude , the boiling point of water is less than 1000c, this is because of
a) higher atmospheric pressure
b) weak hydrogen bonding
c) no change in atmospheric pressure
d) lower atmospheric pressure

15) Substance that has sharp melting point in the following is .
a) gemstone b) coal tar
c) glass d) diamond

16) Which one of the following pair is an example of completely immiscible liquids
a) alcohol and water
b) alcohol and ether
c) water and ether
d) carbon disulphide and water

17) Newton-second is the unit of;
a) work
b) angular momentum
c) power
d) linear momentum

18) The dimension of electric dipole is
a) [M3 L2 T0 A1]
b) [M0 L1 T1 A1]
c) [M0 L1 T1 A0]
d) [M2 L1 T3 A2]

19) If the velocity of the body become half, then kinetic energy of the body becomes;

a) one forth
b) double
c) four times
d) half

20) The angular acceleration of second hand minute of watch is;
a) π rad/sec2
b)2π rad/sec2
c)π/2 rad/sec2
d)non of the above

21) Purkinji fibers are connected with the impulse conducting system of:
a)heart b)brain
c)skin d)nephron
ans; a
reason ; these fibres are present in the heart and conduct impulse.

22) The alveoli represent total surface area of
A)10-30 m b)30-60 m
c)70-90 m d)90-110 m
ans; c

23) Some marine fishes possesses salt excreting organs known as;
a)thyroid gland b)pitutary gland
c)adrenal gland d) rectal gland

24) Tetanus is infection of
a)respiratory system
b)nervous system
c) circulatory system
d)bones and muscles

25) _____ regulate the body temperature?
a) hypothalamus
b) thalamus
c) hippocampus
d) amygdala

26) A man had to face interview, but during his first five minutes before the interview he experiences sweating, increase heart rate and respiration, which hormone is responsible for his restlessness
a) adrenocorticotrophic hormone
b) insulin and glucagon
c) epinephrine and norepinephrine
d) aldosterone

27) Hypothalamus connected to pituitary gland via;
a) nerves
b)infundibulum
c)blood
d)no connection
ans; b
reason ; hypothalamus connect to pituitary gland through infundibulum

28) 2nd meiotic division in oocyte is completed;
a) when oocyte is fertilized by sperm
b) when ovum is discharged from ovary
c) just before fertilization
d) before the onset of mensturization

29) Donot make so much noise, Farrah ___ to study for her ESL test.
a) Try b) tries
c) tried d) is trying

30) Zara changed the flat tire.
Choose the passive voice
a) The flat tire was changed by Zara
b) The flat tire is changed by Zara
c) The flat tire has been changed by Zara
d) The flat tire had changed by Zara

31) Which one of the following is not a state function?
a) Work b) enthalpy
c) internal energy d) pressure

32) How many elements are there in the 3 period of periodic table?
a) 18 b) 8
c) 32 d) 10

33) The number of isomers of pentane is
a) 2 b) 4
c) 5 d) 3

34) When ammonium cyanide (NH4 CN) salt is dissolved in water the solution will be
a) Neutral b) acidic
c) basic d) both b and

35) The enzyme which is found in saliva, accelerates the conversion of starch into sugar is;
a) Pepsin b) thrombin
c) Ptyalin d) Fumarase

36) Consider the reversible reaction.
$N2 + 2NH3 \rightleftharpoons 2NH3 + Heat$
The yield of NH, will be maximum at
a) High temperature and low pressure
b) High temperature and high pressure
c) Low temperature and low pressure
d) Low temperature and high pressure

37) The viscous drag on a small spherical body (moving with slow speed v) is proportional to
a)v b) $\sqrt{v}$
c)$1\sqrt{v}$ d) v2

38) the transverse nature of light is shown by
a) interference of light
b) refraction of light
c) polarization of light
d) dispersion of light

39) An electron is moving along the axis of a solenoid carrying a current. Which of the following is a correct statement about the magnetic force acting on the electron?
a) The force acts radially inwards
b) The force acts radially downwards
c) The force acts in the direction of motion
d) No force acts

40) The motional EMF depends upon
a) Strength of magnetic field
b) Speed of the conductor
c) Length of conductor
d) All of the above

41) A pure breeding tall plant was crossed to dwarf plant. What would be the probability of "T genotype in F2?
a) O b) 0.25
c) 0.5 d) 0.75

42) The number of human spinal nerves is
a) 60 b) 62
c) 64 d) 66

43) Diphtheria vaccines is an example of
a) Inactivated vaccine b) toxoid vaccine
c) subunit vaccine d) live, attenuated vaccine.

44) Which one of the following items gives its correct total number?
a) Cervical vertebrae-7
b) floating ribs in human-3
c) auditory ossicles - 8
d) cranium bones -4

45) find mismatch
a) thyroid gland-Ty and T
b) parathyroid gland- calcitonin
e) pancreas-insulin
d) Gonads-Testes and ovaries

46) The simplest form of learning is
a) Imprinting b) insight learning
c) Latent learning d) habituation

47) To the end of first trimesters the embryo can now technically describe as a
a) Zygote b) infant
c) toddler d) fetus

48) How many pairs of homologous chromosomes are present in Pisum sativum ?
a) Seven pairs b) eight pairs
c) nine pairs d) ten pairs

49) Sorry, she can't come to the phone. She ____bath
a) Is having b) having
c) have d) has

50) Choose the word nearest in meaning to "ENIGMA"
a) Evaluation b) puzzle
c) answer d) account

51) When zinc electrode is coupled with copper electrode in a galvanic cell
a) Reduction takes place at zinc electrode
b) Oxidation takes place at copper electrode
c) Reduction takes place at copper electrode
d) Botha and b

52) Ozone layer in upper atmosphere is being destroyed by
a) Chlorofluorocarbon b) freon
c) smog d) both a and b

53) In the complex, potassium hexacyanoferrate (III). K3 Fe(CN6)l, the coordination number of Fe is;
a) 9 b) 3
c) 6 d) 5

54) The compound which has the highest boiling point in the following is
a) Methyl chloride b) methyl iodide
c) methyl bromide d) both a and b

55) Which one of the following is addition polymer!
a) Nylon b) PVC
c) polythene d) both b and c

56) Photochemical smog is primarily caused by
a) O3 b) NO2
c) SO3 d)CO2

57) Which one of the following physical quantity does not have dimension of force per unit area?
a) Stress b) strain
c) young modulus d) pressure

58) In case of germanium, the value of potential barrier develops across the depletion region is
a) OV b) 0.3V
c) 0.7V d) 0.9V

59) Electron microscope makes practical use of the
a) Particle nature of electron
b) Wave nature of electron
c) Dual nature of electron
d) None of the above

60) Projectile is thrown in such a way that its maximum height equals to its range, the angle of projection is
a) Tan-1 45 b) Tan-1 60
c) Tan-1 30 d) None

61) 61. The percentage of fresh water on earth is
a) 1% b) 3%
c) 5% d) 7%

62) Recombinants contains DNA from
a) 2 different sources b) single source
c) 2 same sources d) 3 same sources

63) The inner surface of a kidney has a deep notch called
a) Renal pelvis b) Hilus
c) medulla d) Pyramid

64) _____is considered as chief structural and functional unit of nervous system.
a) Cell b) neuron
c) nephron d) brain

65) The bacteriophage replicates only inside the
a) Animal cell b) bacterial cell
c) fungal cell d) both a and b

66) _____ is stored in animal cells
a) Starch b) cellulose
c) sucrose d) glycogen

67) A bacterium which has a group of two or more flagella inserted at one pole of the cell
a) Monotrichous b) peritrichous
c) lophotrichous d) amphitrichous

68) The gametophyte of Lycopsida is mainly
a) Aerial
b) partial aerial and partially underground
c) underground
d) Photosynthetic

69) When I went back to my home town three years ago, I found that a lot of changes
a) Had taken place b) have taken place
c) Are taken place d) were taken place

70) Choose the correct sentence
a) He is clever but he lacks experience
b) He is clever but he is lacking experience.
c) He is clever but he lacked experience
d) He is clever but he is lack experience

71) Which of the following is not the major source of organic compound?
a) Natural gas b) petroleum
c) Coal d) ammoniacal liquor

72) Which one of the following concentration units is temperature dependent
a) Molality b) mole fraction
c) Molarity d) both a and

73) Tertiary alcohols are not oxidized into carbon compounds because
a) They contain more alkyl group
b) They have no alpha-hydrogen
c) Suitable oxidizing agent is not available
d) None of the above

74) Which one is more reactive?
a) HCHO b) CH3 CHO
c) (CH3)2CO d) have equal reactivity

75) Which compound shows the highest boiling point?
a) CH3COOH b) C2 H5 OH
c) C2 H5 -0 C2 H5 d) (CH3CH2)3N

76) Which of the following pollutant decolorize the skin?
a)mercury b) arsenic
c) lead d) cadmium

77) Car "X" is travelling at half speed of car "Y" and mass of car "X" is twice as compared to mass of car "Y" Which of the following statement is correct
a) Car "X" has half the kinetic energy of car "Y
b) Car "X" has one quarter the K.E of car "Y"
c) Car "X" has twice K.E of car "Y"
d) The two cars have the same KE

78) If the wavelength of a transverse is 2cm and the period is 2 sec then the wave speed in CGS is
a) 0.1cms-1 b) 0.2cms-1
c)11 cms-1 d) 1 cms-1

79) A car battery has EMF of 12 volts and internal resistance 5x 10 ohm. If it draws 60 ampere current, then terminal voltage of the battery will be
a) 5 volts b) 3 volts
c) 15 volts d)9 volts

80) The cyclotron frequency of an electron projected with velocity V perpendicular to a magnetic field B is given
a) f = mB/πC b) f = 2πeB/m
c) f = eB/2πm d) f = 2πc/mB

81) Opossum and koala bear belong to sub class
a) Prototheria b) cutheria
c) metatheria d) monotremata

82) The form of immunity which inherit from mother
a) Active immunity
b) passive immunity
c) acquired immunity
d) innate immunity

83) The least toxic excretory product is
a) Ammonia b) urea
c) uric acid d) fatty acid

84) Chemically hormones are
a) Carbohydrates b) proteins
c) Steroids d) both b and c

85) DNA polymerase III works always in
a) 5'-2' direction b) 5'-3' direction
c)3'-5' directiond) 2'-5' direction

86) The biogas plant is tank which is
a) 5-10 feet deep b) 10-15 feet deep
e) 15-20 feet deep
d) 20-25 feet deep

87) Which wavelengths are mainly absorbed by chlorophyll?
a) Violet, blue and red
b) green and blue
c) Violet and orange
d) red and indigo

88) For hepatitis B the incubation period is between
a) 4 and 20 weeks b) 6 and 20 weeks
c) 2-26 weeks d) 2-6 weeks

89) Look! A hamster _____ by a cat
a) Has been chased b) was being chased
b) Is being chased d) is chased

90) Choose the word opposite in meaning to "VOCIFEROUS"
a) Silent b) boisterous
c) blatant d) noisy

91) Which contains more atoms?
a) 7 gram Mg b)8 gram Na
c)9 gram A d) all same

92) Which contains highest percentage of nitrogen?
a) NO b) NO2
c) N2O d) N2O5

93) Fe+2 will form the most ionic bond with
a) N-3 b) S-2
c)P-3 d)F-1

94) For exothermic reversible reaction activation energy for forward direction depends upon
a) Temperature b) nature of reactant
c) nature of product d) both a and b

95) As the polarizing power of cation increases thermal stability of carbonates
a) Increases b) decreases
c) not dependent d) depends upon pressure

96) Which one is more reactive?
a) Ester b) acid halide
c) amide d) acid anhydride

97) if A. B= ½, the angle between A and B is
a) Zero b) 300
c) 600 d) 900

98) A train is 200 m long and is moving with uniform velocity of 36 km/hr, the time it will take to cross a
bridge of 1km is
a) 100 sec b) 120 sec
c) 60 sec d) 50 sec

99) Choose the wrong statement. The escape velocity of a body from planet depend upon
a) The mass of a body b) the mass of the planet
e) the average radius of the planet
d) the density of the planet

100) In order to increase the stopping potential, there should be increase in
a) Intensity of radiation
b) Wavelength
e) Frequency of radiation
d) Both wavelength and intensity

101) Sulphur bacteria belongs to sub group of bacteria called
a) Beta-proteo bacteria
b) alpha proteobacteria
c) Gamma proteo bacteria
d) delta proteo bacteria

102) Nuclear mitosis occurs in
a) Plants b) animals
c) fungi d) Monera

103) Excess glucose is converted in the liver to glycogen in response to the hormone
a) Glucagon b) insulin
c) Bile d) both and b

104) During muscles relaxation the calcium ions are
a) Released from sarcoplasmic reticulum into Sarcoplasm
b) Forced back from sarcoplasm to sarcoplasmic reticulum
c) Further forced from sarcoplasmic reticulum into sarcoplasm
d) Neither released more nor forced back but remain constant

105) In male luteinizing hormone also known as
a) ACTH b) CSH
c) TRF d) MSH

106) Particular amino acid and RNA molecule binds together by the action of an enzyme named
a) tRNA synthetase
b) amino tRNA synthetase
c) tRNA ligase
d) aminoacyl tRNA synthetase

107) lipid bilayer makes the membrane differently permeable barrier that allows the transport of
a) ionic materials b) polar materials
c) non-polar materials d) Glycoproteins

108) the following are sexual reproduction methods in bacteria except
a) transformation b) transduction
c) binary fission d) conjugation

109) I'm sorry the house is not available any longer, it____to a timber tycoon
a) Was being sold b) will be sold
c) is sold d) has been sold

110) I always like to lean the side of mercy
a) Over b) one
c) towards d) about

111) Which of the following elements has lowest first ionization energy?
a) N b)O
c) C d) B

112) The anhydride of HClO4 is
a) ClO3 b) ClO2
c) Cl2 O5 d) Cl2 O7

113) A gas diffuse 12 times as fast as hydrogen, its molecular mass is
a) 50 amu b) 25 amu
c)16 amu d) 8 amu

114) Which one of the following ions has more electrons than protons and more protons then neutrons?
a)D b)d-
c)H- d) He

115) Ice and water is in equilibrium with each other. By increasing the pressure the equilibrium will shift in
a) Forward
b) reverse
c) to all system at equilibrium
d) None of the above

116) Steam causes severe burns than boiling water. It is due to
a) Absence of hydrogen bonding
b) High latent heat of vaporization
c) Freely moving molecules
d) Statement is incorrect

117) Two meter high tank is full of water. A hole is made in the middle of the tank. The speed of efflux is
a) 4.9m/s b) 9.8m/s
c) 4.42 m/s d) 3.75 m/s

118) A hail and a rain drop of same radius are released from same height, the rain drop will reach
a) Before hail b) after hail
c) at the same time d) none of the above

119) Two springs A and B (Kg=2 Kg) are stretched by applying forces of equal magnitudes at the four ends. If the energy stored in Ais E, that is B is
a) E/2 b) 2E
c)E d) E/4

120) The general form of path difference in Young's double slit experiment is its corresponding phase shift (in radians) is
a) mπ b) 2mπ
c) mπ/2 d) None of the above

121) lichen is the symbiotic association of a fungus with
a) bacteria b) algae
c) other fungus d) animals

122) the possible reason (s) for cyanosis one of the congenital heart disease is
a) formation of carboxy hemoglobin
b) the high concentration of oxyhemoglobin
c) low level of CO
d) low level of hemoglobin

123) The deficiency of which micronutrient cause goiter formation?
a) Iron b) zinc
c) iodine d) sodium

124) Phosphatases belong to which group of the following?
a) Lyases b) ligases
c) hydrolases d) none of the above.

125) The ribosomes responsible for protein synthesis are present in the cell
a) Floating in the cytosol
b) Localized in the nucleus
c) Bound to rough endoplasmic reticulum
d) Both a and

126) Enzyme need a primer for the initiation of its function
a) RNA polymerase b) DNA polymerase
c) Primase d) Ligase

127) The following histone proteins form a nucleosome complex except
a) HI b) H2A
c) H2B d) H3

128) The bond that is formed between two monosaccharide units is called
a) ionic bond b) hydrogen bond
c) peptide bond d) Glycosidic bond

129) They already some of the old ones and them more comfortable
a) Repair, make b) repaired, made
c) repaired, make d) repair, made

130) I was born in Peshawar but most of my childhood in the Mardan
a) Spends b) have spent
c) was spending d) is spending

131) Which oxides of "K"contain more oxygen than its normal oxide?
a) Peroxide
b) super oxide
c) both contain equal quantity
d) none of the above

132) A gas decolorizes alkaline KMnO4 solution but does not give any PPT with ammoniacal AgNO3
a) Methane b) ethylene
c) ethane d) None of the above

133) Why ethanoic acid is a stronger acid in the liquid ammonia than in water?
a) Ammonia is stronger base than in water
b) Ethanoic acid molecules form H-bonding with water
c) Ethanoic acid is more soluble in liquid ammonia than in water
d) None of the above

134) Which ions are used as catalyst in the reaction between persulfate ions and iodide ions?
a) Lead b) iron
c) copper d) chromium

135) Which one is stronger nucleophile?
a) C2H5O- b) C2H5S-
c) both are equally strong d) none of the above

136) Which one of the following elements has the largest second ionization energy
a) O b) F

c) Na d)N

137) An a particle is accelerated through a potential difference of 10 volts. Its K.E is
a) 1 MeV b)2 MeV
c) 4MeV d) 8 MeV

138) If there are ⁰ capacitors each of capacity "C connected in parallel to "V volt source then energy stored is equal to
a) CV b) ½ nCV2
c) CV2 d) CV2/2n

139) The electric field strength between a pair of plates is "E". if the separation of the plates is doubled and potential difference between the plates is increased by factor of four, the new field strength is
a) E b)2E
c) 4E 8) 8E

140) Two satellites of masses 3M" and "M" orbit the earth in a circular orbit of radius Y and "3r" respectively, the ratio of their speed is
a) 1:1 b) $\sqrt{3}$: 1
c) 3:1 d) 9:1

141) The optimum pH of enzyme urease is
a) 7.8-8.7 b) 7.0
c) 4.5 d) 80

142) Which statement about chlorophyll is not true?
a) It contains terminal carbonyl group
b) It contains phyto tail
c) It contain porphyrin ring
d) It contains magnesium

143) In humans the disease symptoms develop during the
a) Log phase b) lag phase
c) growth phase d) decline phase

144) Independent gametophyte and sporophyte are found in
a) Selaginella b) Polytrichum
c) Ectocarpus d) liverworts

145) Tmesipteris is an example of
a) Horsetail b) club mosses
c) psilopsida d) Pteropsida

146) The larva formed during the life cycle of Annelida is
a) Glochidium larva b) Bipinnaria larva
c) trochophore larva d) tornaria larva

147) Ebners gland on the dorsal surface of the tongue secrete an enzyme
a) Amylase b) Ptyalin
c) Lingual lipase d) both and b

148) Antibodies consists of polypeptide chains
a) 2 b)4
e) 6 d) 8

149) ____ you win first place, you will receive a prize
a) Whenever b) if
c) unless d) so forth

150) The train was _____
a) Halt b) halted
c) had halted d) has halted

151) Which of the following species has the maximum number if unpaired electrons
a) 02 b)O+2
c)O-2 d) O2-2

152) A mixture of 10cm of oxygen and 50cm of hydrogen is sparked continuously. What is the maximum theoretical decrease in volume?
a) 10cm3 b) 15cm3
c)20cm3 d) 30cm3

153) The oxidation state of nitrogen in NH.NO, are
a) 3 and 5 b) +5 and 3
c)-3 and -3 d) zero

154) Which equation relates to the first ionization energy of bromine?
a) Br(g) →Br-(g) + le-
b) Br(g) →Br+(g) + le-
c) ½ Br2(g) →Br-(g) + le-
d) ½ Br2(g) →Br+(g) + le-

155) Co-ordination number of [Co(en)2Cl2] is;
a) -2 b)6
c) 4 d) None of the above

156) An olefin "X"on ozonolysis gives CH3CH2 COCH3 and CH3COCH3 . The IUPAC name of X is.
a) 2-butene b) 2-3 di methyl-2-pentene
c) 2-Pentene d) 1-Hexene

157) Two wires A and B are made of same material. The wire A has length L and diameter R. while the wire B has length 2L. and diameter R/2. If the two wires are stretched by the same force, the elongation in A divided by elongation in B is;
a) 1/8 b)½
c) 4 d) 8

158) A wire can sustain the weight of 20kg before breaking If the wire is cut into two equal parts each part can sustain a weight of
a) 10kg b) 20kg
c) 40kg d) 80kg

159) Which of the following is not EM wave
a) Radio waves b) X-rays
c) light waves d) sound waves

160) A shell of mass m moving with velocity v suddenly breaks into two pieces. The part having mass m/4 remains stationary. The velocity of the other shell will be
a) v b) 2v
c) 3v/4 d) 4v/3

161) Platyhelminthes are
a) Bilaterally symmetrical and diploblastic
b) Bilaterally symmetrical and triploblastic
c) radially symmetrical and triploblastic
d) radially symmetrical and diploblastic

162) the scientific name of fresh water mussel is
a) mytilus edulis b) loligo pealei
c) anodonta grandis d) anodanta bairdi

163) potamogeton is an example of_____.
a) xerophytes b) mesophytes
c) hydrophytes d) halophytes

164) _____stimulates fruits ripening.
a) Cytokinin b) abscic acid
c) ethylene d) auxin

165) A condition in which abnormally large volume of urine is produced is
a) Polydipsia b) polyuria
c) polyphagia d) polyanypsida

166) The bulbourethral glands produce
a) Acidic fluid b) alkaline fluid
c) semen d) mucus

167) HIV destroys a type of defense cell in the body called a helper lymphocyte.
a) TD4 b)T4
c)C4 d) CD4

168) Acetabularia crenulata has _____shaped cap
a) Irregular b) umbrella
c) regular d) disc

169) He confided _____ me.
a) About b) in
c) on d) of

170) He said, "you need not wait"
Choose the correct indirect speech
a) He said that I need not wait
b) He said you needed to wait
c) He said that wait was not needed by you.
d) He said that you must not wait

171) Which one is more soluble in water?
a) Secondary amines b) tertiary amines
c) quaternary amines d) all are insoluble

172) The number of peaks given by ethane thiol in NMR spectrum are
a) 2 b)3
c)4 d) None of the above.

173) C4 H11 N gives the type of isomerism
a) Metamerism b) optical isomerism
c) tautomerism d) None of the above

174) The incorrect statement regarding gas having high value of coefficient of attraction
a) Easy to be liquefied
b) having higher critical temperature
c) less soluble in water
d) none of the above

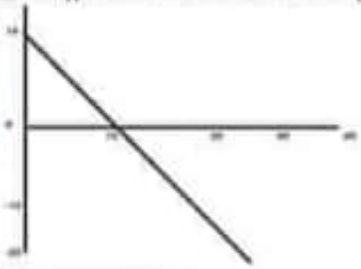
175) which one can form more acidic oxide?
a)Sc b) Mn
c) V d) Ti

176) 176. hydration of hydrocarbon give carbonyl compound,
the general formula of that hydrocarbon is
a) CnH2n+2 b) CnH2n
c) CnH2n-2 d) both b and c

177) Two blocks "A" and "B" having masses 3kg and 4kg are raised to the same height from earth surface. The ratio of gravitational potential of "A to that of "B" is
a) 3:4 b) 4:3
c) 1:1 d) None of the above

178) Heat and work are equivalent. This means
a) When we supply heat to a body we do work on
b) When we do work on a body we supply heat to it.
c) The temperature of a body can be increased by doing work on it
d) Heat and work are neither inter convertible

179) The velocity time plot for a particular moving on a straight line is shown in the figure



a) The particle has a constant acceleration
b) The particle has never turned around
c) The particle has zero displacement
d) The data is insufficient

180) Mark out the correct options
a) The energy of any small part of a string remains constant in a travelling wave.
b) The energy of any small part of a string remains constant in standing wave.
c) The energies of all small parts of equal length are equal in a travelling wave.
d) The energies of all the small parts of equal length are equal in a standing wave.

181) The safranin stain is suitable for
a) Fungal hyphae b) Cytoplasm/cellulose

c) blood cells d) Lignin

182) In the human skull the unpaired bones are
a) Frontal, occipital, ethmoid and sphenoid
b) Frontal, ethmoid, sphenoid and zygomatic
c) Ethmoid, sphenoid zygomatic and frontal
d) Temporal, Sphenoid, frontal and Ethmoid

183) Functionally__ pairs of cranial nerves are sensory in nature and____ pairs are mixed in nature and _ are motor in nature.
a) 3,4 and 5 b) 4,5 and 3
c) 3,5 and 4 d) 4,3 and 5

184) DNA fingerprinting refer to
a) Techniques used for identification of finger prints of individuals
b) Molecular analysis of profiles of DNA samples
c) Analysis of DNA samples using imprinting devices
d) Both a and

185) Oleic acid is a fatty acid with 18 carbon atoms. It breaks down into 9 acetyl groups. It is estimated that these nine acetyl groups would generate ___ATP molecules
a) 81 b) 98
c) 101 d) 108

186) Horsetails are included in class
a) Pteropsida b) Lycopsida
c) Psilopsida d) Sphenopsida

187) Which one of the following bone is the only moveable portion of the skull?
a) Maxilla b) frontal bone
c) Mandible d) Zygomatic

188) Progesterone is secreted by
a) Corpus Luteum b) Ripening follicles
c) Uterine epithelium d) fertilized egg

189) It is natural for us to exert our own success
a) In b) Atc) against d) regarding

190) Be patient, please
Choose the passive voice
a) You are requested to be patient.
b) You are ordered to be patient
c) You are advised to be patient
d) You are embarrassed to be patient

191) Consider reversibility in free radical substitution reaction alkane then Kc value is smallest for
a) Initiation step b) propagation step
c) Termination step d) all same

192) 192. Ethylenediamine Diacetate is
a) Didentate b) tridentate
c) tetradentate d) hexadentate

193) Epoxide obtained from isobutylene is further hydrolyzed in the presence of acid. The final product is
a) 2.3-butanediol!
b) 1,2-butandiol
c) 2-Methyl-1.2-propandiol
d) all of them

194) In the direction of nitrogen in an organic compound. The appearance of Prussian blue coloration is due to the formation of
a) Fe4 (Fe(CN6)3
b) Na3 [Fe(CN6)
c) K3 Fe(CN)6
d) None of the above

195) The bond angle in HS is less than H O. it is due to
a) Small size of oxygen atom
b) Greater E N of oxygen atom
c) Oxygen contain two lone pairs of electrons
d) All of the above

196) The auxochrome not concern with Metanil yellow dye
a) – SO3H b) -OH
c)-NH2 d) both a and c

197) A system can be taken from the initial state P. V to the final state P1 V1 t o the final state P2V2 by two different methods. Let ΔQ and ΔW represent the heat given to the system and the work done by the system. Which of the following must be same in both the methods?
a) ΔQ b) ΔW
c) ΔQ + ΔW d) ΔQ-ΔW

198) At what angle two forces 2F and $\sqrt{2F}$ must act so that their resultant is $F\sqrt{10}$;
a) π/4 b) π/2c
c)2π d) non of the above

199) When 20 J of work was done on a gas. 40J of heat energy was released. If the initial internal energy of the gas was 70J. What is the final internal energy?
a) 50 J b) 60J
c) 90J d)110J

200) Time required by the projectile to reach the summit point is
a) $T = \sqrt{\frac{2H}{g}}$ b) $T = \sqrt{\frac{3H}{g}}$
c) $T = \sqrt{\frac{4H}{g}}$ d) $T = \sqrt{\frac{H}{g}}$

Amin Publications

Answer key

1)	A
2)	D
3)	B
4)	B
5)	B
6)	B
7)	A
8)	A
9)	B
10)	B
11)	C
12)	C
13)	C
14)	D
15)	D
16)	D
17)	D
18)	B
19)	A
20)	D
21)	A
22)	C
23)	D
24)	B
25)	A
26)	C
27)	B
28)	A
29)	D
30)	A
31)	A
32)	B
33)	D
34)	C
35)	C
36)	D
37)	A
38)	C
39)	C
40)	D
41)	C
42)	B
43)	B
44)	A
45)	B
46)	D
47)	D
48)	A
49)	B

50)	B
51)	C
52)	D
53)	C
54)	B
55)	D
56)	B
57)	B
58)	B
59)	B
60)	D
61)	B
62)	A
63)	B
64)	B
65)	B
66)	D
67)	C
68)	D
69)	A
70)	A
71)	D
72)	C
73)	B
74)	A
75)	A
76)	B
77)	A
78)	D
79)	D
80)	C
81)	C
82)	D
83)	C
84)	D
85)	B
86)	B
87)	A
88)	A
89)	C
90)	A
91)	B
92)	C
93)	D
94)	D
95)	B
96)	B
97)	C
98)	B
99)	A

100)	C
101)	C
102)	C
103)	B
104)	B
105)	B
106)	D
107)	C
108)	C
109)	D
110)	B
111)	D
112)	D
113)	D
114)	C
115)	A
116)	B
117)	C
118)	B
119)	B
120)	B
121)	B
122)	A
123)	C
124)	C
125)	D
126)	B
127)	A
128)	D
129)	C
130)	B
131)	B
132)	B
133)	A
134)	B
135)	C
136)	C
137)	B
138)	B
139)	B
140)	B
141)	B
142)	A
143)	A
144)	A
145)	C
146)	C
147)	C
148)	B
149)	B

150)	B
151)	A
152)	D
153)	A
154)	B
155)	B
156)	B
157)	A
158)	B
159)	D
160)	D
161)	B
162)	C
163)	C
164)	C
165)	B
166)	D
167)	D
168)	A
169)	B
170)	A
171)	C
172)	B
173)	A
174)	C
175)	B
176)	C
177)	C
178)	C
179)	C
180)	B
181)	D
182)	A
183)	C
184)	B
185)	D
186)	D
187)	C
188)	A
189)	B
190)	A
191)	C
192)	C
193)	C
194)	A
195)	B
196)	C
197)	C
198)	A
199)	C

200)	C