ETEA Medical Past Paper - 2009

Total Marks: 800 Total Question: 200

1. Which of the following radiation has the least wavelength?
   a. α- rays
   b. x rays
   c. Cosmic rays
   d. β-rays
2. Grignard reagent is prepared by reacting:
   a. Alkyl halide and Mg
   b. Alkane and Mg
   c. Alcohol and Mg
   d. None of them
3. All of the following structures are proteinous in nature except:
   a. Hooves
   b. Hemoglobin
   c. Enzymes
   d. Steroids
4. Which of the following properties of light does not depend upon the nature of the medium?
   a. Velocity
   b. Wavelength
   c. Frequency
   d. Amplitude
5. Which of the following carboxylic acids is the strongest?
   a. Dichloroacetic acid
   b. Chloroacetic acid
   c. Formic acid
   d. Acetic Acid
6. Most favorite host cell of HIV– Virus is:
   a. Lymphocytes
   b. RBC
   c. T– Cell
   d. B– Cells
7. The index of refraction of light in medium and vacuum is given by:
   a. ή=v/c
   b. ή=c/v
   c. ή=vc
   a. d .ή=cv

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8. Which compound shows the highest boiling point?
   a. C2 H6
   b. b.C2 H5 Cl
   c. CH3 OCH3
   d. d.C2 H5 OH
9. Sunken stomata are found in:

a. Mesophytes
b. Xerophytes
c. Halophytes
d. Hydrophytes

10. It is useless _____ them; they are sure to have left the house by now.
    a. to call
    b. Call
    c. Called
    d. calling
11. The particle carrying a charge of (2e) falls through a potential difference of 3V. Energy required by the particle is:
    a. 9.6 x10-19 J
    b. 1.6 x10-19 J
    c. 3.2 x10-19 J
    d. 6.9 x10-19 J
12. Carbon atom in carbonyl is:
    a. SP hybridized
    b. SP2 Hybridized
    c. SP3 Hybridized
    d. None of the above.
13. The mammals terming connecting link between reptilian and mammals
    a. Marsupials
    b. Eutherians
    c. Monotremes
    d. Metatherians
14. The ratio of the heat accepted to the heat rejected by a Carnot engine gives:
    a. The efficiency of the working substances
    b. The ideal gas scale temperature.
    c. The thermal conductivity at the working substance.
    d. The thermal conductivity of the working substance.
15. The unit of 1st order rate constant are:
    a. Sec
    b. Sac-1
    c. Mol.dm-3 soc-1
    d. None of above.
16. In which of the following book lungs are found?
    a. Clam Worm
    b. Silver fish
    c. Leech
    d. Spider
17. The speed of particle at the end of four successes seconds is 20, 25, 30, 35km/hr. The acceleration of the particle is:
    a. 5 km/hr2.
    b. 5 km/sec2
    c. 5 km-hr/sec
    d. 5 km/hr-sec
18. The paramagnetic nature of a substance depends on:

a. The number of electrons in the outermost shell.
b. The number of electrons that are easily ejected
c. The number of unpaired electrons
d. The number of lone pair electrons.

19. Tissue organization is missing in protozoa and found in:
    a. Parazoa
    b. Metazoa
    c. Sporozoa
    d. Monera
20. INVALUABE is closest in meaning to
    a. External valuable
    b. Worthless
    c. Highly expensive
    d. Fertile
21. The orbital speed of the satellite orbiting around the earth is:
    a. $\sqrt{GM/Re}$
    b. $\sqrt{GMe/Re}$ GMe =GMe and R2 =R2 and Re = Re
    c. $\sqrt{GMe/R2}$
    d. $\sqrt{GMe/h}$
22. When does a chemical reaction attain equilibrium?
    a. When forward and backward reaction taking place at the same rate
    b. reaction takes place
    c. The forward and backward
    d. There are two reactions with one faster than the other.
23. All of the following are mono nucleotides EXCEPT:
    a. A.M.P
    b. A.T.P
    c. A.D.P.
    d. F.A.D.
24. If A is unit vector in the direction of vector A then.
    a. $\dot{\eta} = \bar{A} / |\bar{A}|$
    b. $\dot{\eta} = \bar{A} \ |\bar{A}|$
    c. $\dot{\eta} = \dot{\eta}\,\bar{A}$
    d. $\dot{\eta} = A / \bar{A}$
25. Of the following compounds, which has the shortest carbon – halogen bonds?
    a. CH3 F
    b. CH3 I 3
    c. CH3 Cl
    d. CH3 Br
26. The attachment of two sub-units of ribosome along mRNA is controlled?
    a. Sodium ions

b. Calcium ions
c. Potassium ions
d. Magnesium ions

27. . ……

28. The value of K (equilibrium constant) for a reaction?
    a. Is the same at different temperatures?
    b. Is different at different temperature
    c. Is negligible at room temperature.
    d. Can be the same at different temperatures
29. Proper arrangement of layers in plant cell from inside outwards is:
    a. Primary wall – secondary wall – middle lamella
    b. Secondary wall – primary wall – middle lamella
    c. Primary wall – Middle lamella – Secondary wall
    d. Secondary wall – middle lamella – Primary wall
30. The Horizontal range of the projector is:
    a. R = (V 20 / g)sinϴ cosϴ
    b. R = (V 21 / 2g)sinϴ
    c. R = (V 2 / g) cos2ϴ
    d. R = (V 21 / 2g)sin2ϴ
31. Which of the following species deactivate the Benzene ring when attached to Benzene ring.
    a. C2 H5
    b. SO3 H
    c. NH 2
    d. CH 3
32. Two parent's strands of DNA molecules are:
    a. Parallel
    b. Antiparallel
    c. …….
    d. None
33. The resistance of the pure semi-conductor decreases in a certain range with the:
    a. decrease of temperature
    b. Increase in current
    c. Increase of temperature
    d. Decrease in current
34. The elements Arsenic and Antimony are considered as:
    a. Metals
    b. Non metal
    c. metalloid
    d. None of the above
35. Appendix is vestigial in man but may play role in:
    a. Digestion
    b. Excretion
    c. Movement
    d. Immunity

36. The paratrooper of mass 80 kg descends vertically at a constant velocity of 3.0m/s taking the acceleration of free fall as 10m/ s find out what is the net force acting on him? (g =0m/s2)
    a. Zero
    b. 800N– Upward
    c. 800 – downward
    d. 240N– downward
37. Benzene is the prime member of:
    a. A cyclic compounds
    b. All cyclic compounds
    c. Hetro cyclic compounds
    d. Aromatic compounds
38. Ammonia is formed during digestion in:
    a. Liver
    b. Stomach
    c. Small intestine
    d. Large intestine
39. If you had passed your examination we_____ a celebration:
    a. Would have had
    b. Must have
    c. would have
    d. Will have
40. Tell him not _____ anyone enter the enclosure
    a. To let
    b. Let
    c. to have let
    d. Telling
41. The acceleration of falling body in fluid depends upon:
    a. velocity
    b. Viscosity of fluid
    c. density of the body
    d. all of the above
42. The sodium ion is ISO electronic with:
    a. N
    b. P3-
    c. K+
    d. F-

43. ----------Missing----------

44. Two concurrent forces have a maximum resultant of 45N and minimum resultant of 5N. What is the

Magnitude of each of these?

    a. 0.45N
    b. 5N, 9N
    c. 20N, 25N
    d. 0N, 45N
45. The change in enthalpy is a measure of the heat reaction at:

a. Constant volume
b. Constant pressure and volume
c. Variable pressure
d. Constant pressure

46. The direction of torque is:
a. Parallel to the plane of F and γ
b. Perpendicular to the plane of F and γ
c. Anti – parallel to the plane of F and γ
d. is the same as that of the plane of F and γ

47. Cloned dolly was identical to the:
a. Parents, who gusted and gave birth to dolly
b. Parent, who donated egg-cell
c. Parent, who donated somatic-cell
d. Bothe (b) and (c)

48. Reaction of alcohol with sodium produces:
a. Alkoxides
b. Ethane
c. Alkane
d. Alloyed

49. A true column of chromosome number in Garden-pe Onion and tobacco is:
Garden Pea Onion Tobacco
a. 13 15 17
b. 14 16 48
c. 15 17 49
d. 16 18 50

50. When I got up yesterday, the ground was wet it_____:
a. Has rained
b. Was rained
c. had rained
d. Rained

51. How are the two vectors of the same magnitudeoriented to get a resultant of the same magnitude?
a. 900
b. 600
c. 450
d. 1200

52. Thermite process is:
a. Exothermic
b. Endothermic
c. Reversible
d. None of the above

53. Cleavage differs from mitosis in that:
a. It occurs only in zygote
b. It occurs in all body cells
c. It results into haploid cells only
d. It results into identical cells

54. Rain drops falling from sky reach the ground with:

a. Constant acceleration
b. Constant terminal velocity
c. Acceleration greater than g
d. Variable acceleration

55. In the laboratory standard solution are prepared in:
    a. Conical flasks
    b. Beakers
    c. Volumetric flasks
    d. Measuring cylinder
56. RBCs are destroyed in the liver while WBCsare destroyed in:
    a. Plasma
    b. Liver
    c. Inside various cells of body
    d. Outside of the blood stream
57. Potentiometer is the instrument works on the principle of:
    a. Kirchhoff's 1st law
    b. Wheatstone bride
    c. combination of resistance
    d. Kirchhoff's 2nd law
58. Nitrogen has three unpaired electrons according to:
    a. Hund's rule
    b. Aulban rule
    c. Paoli's exclusion principle
    d. Thumb rule
59. Condensation of chromosomes reaches to its peak during early:
    a. Prophase
    b. Metaphase
    c. Anaphase
    d. Telophase
60. He reads ___ magazine he can lay his hands on:
    a. Some
    b. Every
    c. The
    d. Any
61. The density of the steel ball was determined by measuring the mass and diameter. The mass was measured with 1% and diameter 3% of the error. In the calculated density of the steel ball is at most:
    a. 2%
    b. 4%
    c. 8%
    d. 10%
62. The inert form of carbon is:
    a. Diamond
    b. Graphite
    c. Coal
    d. Charcoal
63. The enzyme —Reverse transcriptase present in HIV – virus is:

a. 50 molecules per virion
b. 40 molecules per virion
c. 30 molecules per virion
d. 20 molecules per virion

64. The vectors A and B are such that | A+B| = | A-B |. The angle between the two vectors is:
    a. 0
    b. 600
    c. 900
    d. 1800
65. For the separation of gases from a mixture we use:
    a. Simple distillation
    b. Fractional distillation
    c. Chromatography
    d. Graham's law diffusion
66. All of the following are carbohydrate EXCEPT:
    a. Glycogen
    b. Collagen
    c. Starch
    d. Cellulose
67. If a green light in a Young double slit experiment is replaced by monochromatic orange light of the same intensity. Then:
    a. Fringe width will decrease
    b. Fringe width will increase
    c. Fringe width will remain the same
    d. Fringe width will become less intense
68. Which one of the following forms the most acidic oxide:
    a. Al
    b. Sl
    c. Fe
    d. P
69. The amount of bile produced by human in liver is:
    a. 1000 ml/day
    b. 2000ml/day
    c. 3000 ml/day
    d. 4000 ml/day
70. When the man failed to answer where ___ the police became suspicious:
    a. did he belong to
    b. was he belonging to
    c. he belonged to
    d. he was belonging to
71. Two bodies with masses m1 and m2 have equal kinetic energies. If M1 and M2 are their respective momentum then the ration between M1 and M2 is:
    a. m1: m2
    b. $\sqrt{m1/m2}$

c. m12: m22

d. $\frac{\sqrt{\text{m1}:\sqrt{m2}}}{1}$

72. Which statement is correct?
    a. Standard Hydrogen Electrode (SHE) always acts as anode
    b. 'SHE' may act as cathode or anode depending upon the reduction potential of the counterpart
    c. 'SHE' always acts as cathode in vollaic colls
    d. None of the above
73. Daphnia belongs to:
    a. Insecta
    b. Annelida
    c. Crustacean
    d. Arachnida
74. If frequency of incident light falling on photo-emissive plate is double Kinetic energy of emitted photoelectron is:
    a. Doubled
    b. More than double
    c. Unchanged
    d. Less than double
75. The stronger the reduction potential the more difficult it is to:
    a. Oxidize the compound
    b. Reduce the compound
    c. Electrolyze the compound
    d. None of the above
76. A change in gene frequencies in small population by chance is called:
    a. Gene pool
    b. Genetic drift
    c. Gene mutation
    d. Gene flow
77. The number of significant figures in 4.0030 is:
    a. Four
    b. Five
    c. Two
    d. Three
78. What is the ionic strength of 0.01 M barium chloride solution?
    a. 0.03
    b. 0.02
    c. 0.04
    d. 0.01
79. Feathers of birds are water proof due to the secretion of:
    a. Sodoreferous glands
    b. Endocrine gland
    c. Preen gland
    d. Thymus glands

80. A train is ___ different bogeys.
    a. Made of
    b. Make up of
    c. Made with
    d. Made up of
81. 81. Hydrogen atom in their ground state absorbs energy from the incident photon. Which makes a transition to energy level characterized by n = 4 the number of lines observed are:
    a. 8
    b. 4
    c. 6
    d. 10
82. Stoichmetric calculation based on chemical equation provides us intimation about:
    a. Theoretical yield
    b. Practical yield
    c. Percentage yield
    d. All of the above
83. In fishes, the heart pumps:
    a. Pure blood to the body
    b. Impure blood to the body
    c. Pure blood to the gills
    d. Impure blood to the gills
84. An object in a satellite orbiting around the earth is weightless because:
    a. g = 0
    b. It is falling freely
    c. No force acts on it
    d. It is far away from the earth
85. Which one is the separating technique?
    a. Deliquescence
    b. Fluorescence
    c. Phosphorescence
    d. Solvent extraction
86. The size of ribosome in prokaryotic cell is:
    a. 40s
    b. 60 s
    c. 70s
    d. 80 s
87. Light and heavy bodies have equal kinetic energies. Which one has the greater momentum?
    a. Heavy body
    b. Light body
    c. Bother the same momentum
    d. None of these
88. Which one is used as stationary phase in paper chromatography?
    a. Alcohol
    b. Adeline
    c. Piece of paper
    d. Water absorbed on paper
89. The molecular formula of chlorophyll– b is:

a. C55 H 70 O6 N9 Mg
b. C70 H 55 O11 N5 Mg4
c. C14 H 55 O6 N5 Mg3
d. C55 H 76 O5 N6Mg2

90. They…. Had a quarreled about their holiday destination. The underlined word is:
    a. An adverb
    b. An adjective
    c. An auxiliary
    d. A pronoun
91. In open organ pipe of length is the wavelength of fundamental note is:
    a. Equal to l
    b. Equal to 2l
    c. Equal to 4l
    d. Equal to 3l /2

92. There are three quantum numbers n. l and m (all integers) characterizing each solution of the Schrodinger equation .If n = 3, what is the range of possible values for m?
    a. ± 3
    b. $\pm 1/2$
    c. ± 2
    d. Any positive number from 0 to n-1

93. Which of the following is sedentary in adult and active in larval stage?
    a. Sponge
    b. Leech
    c. Salamander
    d. Grasshopper

94. The time period of communication satellites is:
    a. 1 hour
    b. 2 Hour
    c. 12 Hour
    d. 24 hour
95. In hydronium ion, what is the nature of bond between oxygen of water and hydrogen ion in an acidic solution?:
    a. Covalent
    b. Electrovalent
    c. hydrogen bond
    d. Coordinate covalent bond
96. The primer used in polymerase chain reaction has a sequence of bases:
    a. 20
    b. 16
    c. 12
    d. 8.
97. When the Newton's rings interference … is seen from above by means of reflected light. The central spot always appears:

a. White
b. Black
c. red
d. green

98. Real gases deviate more from ideal behavior at:
a. High temperature only
b. High pressure only
c. high pressure and low temperature
d. Low pressure and high temperature

99. The valve between left atrium and left ventricle is:
a. Semi lunar valve
b. tricuspid valve
c. Pulmonary valve
d. Bicuspid valve

100. We waited ____ dark.
a. beyond
b. before
c. until
d. Unless

101. The unit of electric intensity is:
a. Volt/meter
b. Newton / Columb
c. joule/ Columb-meter
d. All of the above

102. Particles involves in an ordinary chemical reaction are:
a. Protons
b. Neutrons
c. Electrons
d. All of the above

103. Cup-like ascocarp in fungi is:
a. Apothecium
b. Perithecium
c. Hysterothecium
d. Cleistothecium

104. If a wave can be polarized, it must be:
a. a progressive wave
b. a longitudinal wave
c. a stationary wave
d. a transverse wave

105. The phenomenon of cooling on sudden expansion of gases is called:
a. Bronstect effect
b. Joule-Thomson effect
c. Graham's effect
d. Dalton's effect

106. Each molecule of NADH2 entering the electron transport chain produces:
a. Four ATPs

b. Two ATPs
c. One ATPs
d. Three ATPs

107. The resolving power is expressed as maximum angle α min between the two sources S1 and S2. If λ is wavelength of light and D is the diameter of lens, then there solving power is given by:
a. αmin >=1.22 λ/D
b. αmin =m λ/D
c. αmin =1.22 λ/D
d. αmin =<1.22 λ/D

108. Fizzy drinks contain dissolved CO2.The CO2: reacts with H2O to form weak acid which is called
a. Acetic acid
b. Carbonic acid
c. Lactic acid
d. Fomic acid

109. A coiled hemoglobin is called:
a. Haemocyonine
b. Haemoprotein
c. Myoglobin
d. Haemorrhoids

110. 'FORGO' is closest in meaning to:
a. run away
b. Do without
c. Safeguard
d. Precede

111. Planck's constant has the dimension of:
a. Energy
b. work
c. Linear momentum
d. Angular momentum

112. Cleaning action of soap is due to:
a. Decrease in surface tension of water
b. Viscosity of water
c. High boiling point of water
d. Polarity of water

113. In chromosome, the material controlling heredity is:
a. Histone
b. RNA
c. DNA
d. All of above

114. The wavelength of sound made from a tuning fork of frequency 330 Hz is nearly:
a. 330 m
b. 100 m
c. 10m
d. 1m

115. Polymerization is a process of producing:

a. High molecular weight compounds from monomers
b. Low molecular weight compounds from monomers
c. Intermediate molecular weight compounds form monomers
d. High molecular weight compounds from polymers

116. If father of a baby is hemophilic and mother is a carrier then chances of the baby inheriting the disease will be:
a. 0%
b. 50%
c. 75%
d. 100%

117. Pressure exerted by perfect gas is equal to:
a. 1/3 mean K.E /volume
b. 1/2 mean K.E /volume
c. 2/3 mean K.E /volume
d. mean K.E /volume

118. The charge on electron is equal to:
a. 1.7588x1019 Columb
b. 1.6022 x10-19 Columb
c. 1.2057 x1019 Columb
d. 0.6022 x1019 Columb

119. First crystalline hormone is:
a. Thyroxin
b. Nor-adrenalin
c. Adrenalin
d. All of above

120. A fool and his _____ are soon parted:
a. Family
b. Friends
c. Riches
d. Money

121. A particle performs simple harmonic motion of amplitude0.02 m and frequency 2.5 Hz. What is the maximum speed?
a. 0.008m/s
b. 0.314m/s
c. 0.125m/s
d. 0.05m/s

122. Both H ion and helium atom have the same number of:
a. Proton
b. Electron
c. Neutrons
d. None of the above

123. Pollen-grain germinates and develops into:
a. Prothalus
b. Sporophyte
c. Micro-gametophyte
d. Mega-gametophyte

124. A particle of mass moving with a velocity V makes hea On elastic collision with another particle of the same mass and initially at rest. The velocity of the first particle after the collision:
   a. 2V
   b. -V
   c. +V
   d. Zero
125. CO_2 is ISO-structural with:
   a. $HgCl_2$
   b. $SnCl_2$
   c. C_2H_2
   d. NO_2
126. All of the following belong to mosses Except:
   a. Funaria
   b. Polytrichum
   c. Sphagnum
   d. Club-mosses
127. In CRO, the time bases sweep circuit is connected to the:
   a. X-plate
   b. Y-plate
   c. Electron gun
   d. Accelerating electrode
128. How many sub shells are present in n = 3 shell:
   a. 4
   b. 3
   c. 5
   d. 9
129. Alveoli are absent in:
   a. Fishes
   b. Amphibian
   c. Birds
   d. Mammals
130. I‘ve hung out the clothes. It‘s lovely and sunny: if it…… like this they …. Dry in two hours:
   a. Stayed would be
   b. Stays, will be
   c. Had stayed, would have been
   d. will stay, will be
131. Ampere hour is a unit of:
   a. Current
   b. Time
   c. Quantity of charge
   d. Power
132. All the compounds are inorganic EXCEPT:
   a. $CaCO_3$
   b. CAC_2
   c. KCN
   d. $(NH_2)CO$

133. Which one is isotonic to the surrounding seawater?
   a. Bony fishes
   b. Shark
   c. Carp
   d. Paramecium

134. A 100m long conductor, Carrying current of 2A is at right angle to B of 0.5 wb-m2. The force experienced by the conductor is:
   a. 1.2N
   b. 3 dynes
   c. 107 dynes
   d. 105 dynes

135. Molecules of oxygen is diatomic and behaves as:
   a. Diamagnetic
   b. Paramagnetic
   c. Ferromagnetic
   d. Anti-ferromagnetic

136. Sperms of which animal can remain viable for years within the female genital tract?
   a. Whale
   b. Bat
   c. Camel
   d. Giraffe

137. Which type of field is present near a moving electric charge?
   a. An Electric field only
   b. A magnetic field only
   c. Both magnetic and electric field
   d. Magnetic and gravitational field

138. Which is strongest acid?
   a. HClO
   b. HClO2
   c. HClO3
   d. HClO4

139. Opossum belongs to:
   a. Metatheria
   b. Eutheria
   c. Theria
   d. Prototheria

140. When she came ____ senses, she asked to see her son.
   a. in
   b. to
   c. at
   d. into

141. If an electron is accelerated from rest through a potential difference of 100 volts. Its final kinetic energy is:
   a. 1.6x1018 j
   b. 1. 6x10-17 j
   c. 100 J
   d. 100 electron volt

142. TiCl4 is used as catalyst for the:
   a. Oxidation of C2 H5 OH acetaldehyde
   b. Manufacture of ammonia
   c. Neutrons
   d. None of the above
143. Wheat, maize and rice are the member of family:
   a. Fabaceae
   b. Solanaceae
   c. Poaceae
   d. Mimosaceae
144. The inductance of solenoid depends upon the:
   a. Area of cross section
   b. Length of solenoid
   c. Number of turns
   d. All of above
145. The shape or appearance in which a crystal grows is called:
   a. Crystal geometry
   b. Crystal lattice
   c. Crystal habit
   d. None of the above
146. Growth movement of pollen tube towards the egg is:
   a. Hydrotropism
   b. Chemotropism
   c. Chemotactic
   d. Seismetactic
147. The mean value of sinusoidal Emf over cycle is:
   a. Maximum
   b. Zero
   c. Maximum and minimum
   d. No change in Emf
148. Species in which the central atom uses Sp hybride orbital in its bonding is:
   a. PH3
   b. NH3
   c. SbH3
   d. C2H2
149. All of the following are characteristics of enzymes EXCEPT:
   a. The increase the activation energy
   b. They are specific in action
   c. They possess specific active site
   d. They possess the dimensional shapes
150. The boys got ____ the bus at the terminus.
   a. From
   b. of
   c. off
   d. al1
151. An efficient voltmeter has:
   a. Low resistance in comparison to circuit resistance

b. High resistance in comparison to circuit resistance
c. A resistance equal to circuit resistance
d. None of the above

152. SO_2 is responsible for the formation of:
a. Acid rain
b. Greenhouse effect
c. Global worming
d. Ozone depletion

153. Beside mammals, diaphragm is present in:
a. Birds
b. Crocodiles
c. Fishes
d. Toads

154. The period of simple pendulum double when:
a. Its length is double
b. The mass of the bob is double
c. Its length is made four times
d. The mass and length of the pendulum is made two times

155. The isomerism exhibits by $C_5H_{11}OH$ is:
a. Position isomerism
b. Functional group isomerism
c. Chain isomerism
d. All of the above

156. Metamerism is found in:
a. Earth worm
b. Sponges
c. Snakes
d. Grass hopper

157. ----------missing---------

158. When the nitrates of Na, Li, Ca and Sr were heated strongly in separate containers, all of them gave reddish brown color EXCEPT the nitrate of:
a. Na
b. Ca
c. Sr
d. Li

159. ----------missing---------

160. A transformer changes 12 V to 18000 V and there are 6000 turns in the secondary coil. The number of turns in the primary coil are
a. 40
b. 20
c. 20
d. 4

161. If a person is injured by the shot of gun and all the pellets could not be removed, the may cause poisoning by:
   a. Hg
   b. Pb
   c. Fc
   d. Sn
162. Early blight of potato is caused by:
   a. Alternaria-solani
   b. Phytophthora-infestans
   c. Erysiphe-graminls
   d. Claviceps=purpurea
163. In power loss in a capacitor in C circuit is:
   a. < P > = V0 l0
   b. < P > = V0 l0 sin ωl
   c. < P > = V0 l0 Cos ωl
   d. < P > = Zero
164. Carboxylic acid contains:
   a. Hydroxyl group
   b. A hydroxyl and carboxyl group
   c. A carboxyl group
   d. A carboxyl and oldehydic group
165. Which one among the following possesses a double-ringed structure?
   a. Cytosine
   b. Adenine
   c. Urocil
   d. Thymine
166. The truth table of logic function:
   a. Summarizes its output
   b. tabulates all its input conditions only
   c. Displays all its input/output possible
   d. Is not based on the logic algebra
167. A catalyst is more effective when it is in the finely divided state because:
   a. The valence electrons are easily available
   b. This increases the surface area of the catalyst
   c. It attains equilibrium quickly
   d. All of the above
168. Which of the following are the pioneer group to develop true roots and true leaves?:
   a. Psilopsida
   b. Sphenopsida
   c. pteropsida
   d. Lycopsida
169. My stay in Gilgit will remain ____ fond memory to me.
   a. a
   b. the
   c. my
   d. any

170. The outer electronic configuration of on element 'X' is ns2np6. It belongs to which group of the periodic table:
   a. 2nd group
   b. 4th group
   c. 3rd group
   d. 5th group

171. A enzymes in gastric juice of many infant mammals that precipitates milk protein is:
   a. Renin
   b. Personage
   c. Rennin
   d. Gastrin

172. A ball of mass 1 gram is moving with a velocity of103m/s. The De-Broglie wavelength of the ball is:
   a. 13.26 x 10-36
   b. 3.3156 x 10-34
   c. 6.63 x 10-34
   d. 4.97 x 10-36

173. Which one of the following is used as drying agent?
   a. NaHCO3
   b. CaCO3 H2 O
   c. CaCl2 anhydrous
   d. Na2 SO4 H2 O

174. Nematocysts are found in:
   a. Nematodes
   b. Coelenterates
   c. Annelids
   d. Sponges

175. If diamagnetic substance is brought near north or south pole of a bar magnet, it is :
   a. Attracted by the poles
   b. Attracted by North pole and repelled by south pole
   c. Attracted by South Pole and repelled by North pole
   d. Repelled by the poles

176. Super phosphate is made by:
   a. the acidulation of phosphate rock
   b. the alkylation of phosphate rock
   c. The alcoholation of phosphate rock
   d. The alkali addition with phosphate rock

177. Extract embryonic membranes like amnion and chorine appeared for the first time:
   a. Amphibians
   b. Reptiles
   c. Birds
   d. Fish