ETEA Medical Past Paper - 2007

Total Marks: 800
Total Question: 200

1) The student were ________ and the teacher, therefore, did not take the class.
   a. Only few
   b. A few
   c. Not much
   d. Few

2) The largest demand of energy is generally fulfilled by
   a. Hydroelectric power
   b. Nuclear power
   c. Solar energy
   d. Fossil fuels

3) The magnitude of $ix(jxk)$ is
   a. 0
   b. 1
   c. -1
   d. 2i

4) An atom has net charge of -1. It has 18 electrons and 20 neutrons. Its mass number is
   a. 18
   b. 39
   c. 37
   d. 20

5) Which one of the following bond is broken first in glycolysis to release the energy?
   a. Glycosidic
   b. Peptide
   c. Ester
   d. None

6) The teeth adopted for cutting are
   a. Canines
   b. Incisors
   c. Premolar
   d. Molars

7) Which one of the following isotopes of natural uranium under goes reaction with slow neutron?
   a. $^{235}\text{U}_{92}$
   b. $^{238}\text{U}_{92}$
   c. $^{234}\text{U}_{92}$
   d. $^{239}\text{U}_{92}$
b. Micro waves

c. Standing waves

d. Sound waves

16) NH$_3$ has higher boiling point than expected because

a. With water if forms NH$_4$OH

b. It has strong inter molecular hydrogen bonds

c. It has strong inter molecular covalent bonds

d. Its density decreased on freezing

17) Mangroves are

a. Xerophytes

b. Mesophytes

c. Heliophytes

d. Halophytes

18) In simple A.C. inductive circuit

a. The voltage leads the current by 90°

b. The voltage lags behind the current by 90°

c. The current leads the voltage by 90°

d. The current and voltage are in phase

19) The phenomenon of mutual induction is practically used in

a. Transformer

b. Generator

c. Galvanometer

d. Avometer

20) If $K_c$ is small, it indicates that the equilibrium occurs

a. At a low product concentration

b. Only with the help of catalyst

c. At high product concentration

d. None of these

21) Four chambers heart is found in

a. Lizard

b. Fish

c. Crocodile

d. None

22) The color coding of carbon resistor is such that the first band green, the second band is yellow the third band is red, and the fourth band is golden the value of resistance is

a. 4500 ohm with 10% tolerance

b. 5400 ohm with 10% tolerance

c. 5400 ohm with 5% tolerance

d. 4500 ohm with 5% tolerance
47) Which one of them is a true fish?
   a. Cuttle fish
   b. Silver fish
   c. Jelly fish
   d. Sea horse

48) The excited state of an atom which can persist for unusual longer time is called
   a. Metastable state
   b. Ground state
   c. Excited state
   d. Normal state

49) The widely used pvc is polymerized product of
   a. CH2=CH2
   b. CH2=CCl2
   c. CICH2=CH2Cl
   d. CH2=CH2Cl

50) If the distance b/w the two charged particles is halved, the coulomb force b/w them becomes
   a. Half
   b. One quarter
   c. double
   d. four times

51) The neutralization of a strong acid by a strong base liberates an amount of energy per mole of H+ ion that
   a. depends upon which acid and base are involved
   b. depends upon temperature at which reaction takes place
   c. depends upon which catalyst is used
   d. is always the same

52) Going to ____________ is considered vulgar by elders of our village
   a. The cinema
   b. Cinema
   c. A cinema
   d. Cinemas

53) The main excretory organs in cockroach are
   a. Flame cell
   b. Cilia
   c. Nephridia
166) The constancy of e.m.f ratio for electron shows that
a. Electron mass is $1837^{th}$ of proton
b. Electron are universal particles’ of all matter
c. Electrons produced in discharge tube only
d. None

167) Genome of which of the following consist of single molecule of DNA
a. HAV
b. HBV
c. HCV
d. HIV

168) The unit of conductance is
a. Ohm
b. Ohm/meter
c. Ohm meter
d. Mho

169) At what place the motion of the bob of simple pendulum will be slowest
a. At poles of earth
b. At equator of earth
c. Anywhere on the surface of earth
d. None of these

170) A liquid is in equilibrium with its vapors at its boiling point. On the average the molecules in the two phases are equal
a. Potential energy
b. Total energy
c. Kinetic energy
d. Intermolecular energy

171) Lithotripsy is a technique to
a. Remove kidney stones without surgery
b. Remove kidney stones with surgery
c. Treat kidney with medicines
d. Remove appendix

172) In time of war govts. Do things which are expedient. The underline word means
a. Endorsed by war council
b. Concomitant
c. Need of the hours
d. Useful but not necessarily right

173) Which one of the following plant feeds on water mites
a. Nepenthes
b. Utricularia
c. Dionea
d. Drosera

174) If the resultant of two vectors. Each of magnitude $A$ is also of magnitude of $A$ the angle between the vectors will be
a. 30
b. 45
c. 60
d. 120