

Model Test Paper for B.Sc. (Hons.) Ag. 6-year programme.

(for entrance test)

Genral Science

Answer are underlined

- 1) **Number of moles of a substance (solute) dissolved per liter of solution is called:**
- Reaction
 - Molarity
 - Solution
 - Reation rate
- 2) **Which one of the factor affecting the rate of reaction?**
- Temperature
 - Catalyst
 - Light
 - All of above
- 3) **Reactant + heat = products, Which type of reaction is?**
- Photochemical
 - Exothermic
 - Endothermic
 - All of above
- 4) **What type of change in: 'Burning of a candle.'**
- Physical change
 - Chemical change
 - Both of above
 - None of above
- 5) **In which reaction one substance is oxidized and other is reduced?**
- Oxidation
 - Chemical reaction
 - Physical reaction
 - Redox-Reaction
- 6) **What is the Ph value of pure water?**
- 0
 - 7
 - 1
 - 7
- 7) **What is chemical formula of Baking soda?**
- Na_2CO_3
 - $NaOH$
 - $NaHCO_3$
 - $NaCO_3$
- 8) **What is the colour of crystals of washing soda?**
- Transparent
 - White
 - Blue
 - Nevi blue
- 9) **What type of item is maximum percentage in cement**
- SiO_2
 - Al_2O_3
 - Both of above
 - CaO
- 10) **What is the wavelength of infrared light?**
- 400-700 nm
 - More than 700nm
 - Less than 400 nm
 - None of above
- 11) **Which mirror has real focus?**
- Concave mirror
 - Convex mirror
 - Both of above
 - Plane mirror
- 12) **Which lens has always negative focal length?**
- Convex lens
 - Concave lens
 - Both of above
 - Plan lens

- 13) Which mirror make a real, inverted and equal size of image of an object?
a) Plane mirror
b) Convex mirror
c) Concave mirror
d) All of above
- 14) To correct vision defect of 'Myopia of eye' Which type of lens is used
a) Convex lens
b) Concave lens
c) Both of above
d) Plan lens
- 15) What is the latest distance of vision of adult human being?
a) 1.00 m
b) 0.75 m
c) 0.50 m
d) 0.25 m
- 16) The change flowing per unit time through a conduction is called:
a) Charge
b) Current
c) Potential
d) All of above
- 17) What is SI unit of Electric potential?
a) Coulomb
b) Ampere
c) Volt
d) resistance
- 18) An electric bulb in a train during 0.2 ampere current at 40 volts. Find the resistance of the blub.
a) 80Ω
b) 20Ω
c) 200Ω
d) 800Ω
- 19) When a rode magnet cut into two pieces then how many poles of each piece.
a) One
b) Two
c) Four
d) zero
- 20) which current does not change its direction after equal interval of time?
a) Alternating current
b) Direct current
c) Indirect current
d) All of above
- 21) Electric moter converts electric energy into:
a) Heat energy
b) Physical energy
c) Chemical energy
d) Mechanical energy
- 22) What is the main constituent of Biogas?
a) LPG
b) Methane
c) CNG
d) All of above
- 23) What is the best quality of coal?
a) Lignite
b) Peat
c) Bituminous
d) Anthrecite
- 24) Water gas is mixture of the following:
a) Co and N₂
b) Co and O₂
c) H₂ and O₂
d) Co and H₂
- 25) Which diseases is cause of protozoa:
a) Malaria
b) Influenza
c) AIDS
d) All of above
- 26) What is the technical name of Vitamin D?
a) Thiamine
b) Ascorbic- acid
c) Iodine
d) All of above
- 27) Which is the example of secondary fuel?
a) wood
b) Coal
c) Coal gas
d) All of above
- 28) The symbol of copper is:
a) Ca
b) Cr
c) Co
d) Cu
- 29) The number of electrons in the outermost shell of carbon atom is:
a) 2
b) 3
c) 4
d) 5
- 30) The mineral does not contains oxygen:
a) Hematite
b) Cuprites

- c) *Pyrolusite*
d) *cryolite*
- 31) **Newton-second is the unit of**
.....
a) *Accelration*
b) *Rate of change of momentum*
c) *Momentum*
d) *force*
- 32) **in a DC motor:**
a) *Electric energy is converted into Mechanical energy.*
b) *Chemical energy is converted into Electric energy.*
c) *Electric energy is converted into Chemical energy.*
d) *Mechanical energy is converted into Chemical energy.*
- 33) **Two cars A and B running in a plane land if the ratio of mass of A to B is 2 : 1, the ratio of their velocity A to B is 1 : 3, Find the ratio of their K.E .**
a) 3 : 2
b) 2 : 3
c) 9 : 2
d) 2 : 9
- 34) **200 Jule is equal to calories:**
a) 4.76
b) 21
c) 42.67
d) 47.61
- 35) **A person takes 12 second to cover a distance of 100 m. his speed Km/h is:**
a) 8.35
b) 15.5
c) 22
d) 30
- 36) **Brass is an alloy of**
a) Copper and Zink
b) *Copper and tin*
c) *Iron and carbon*
d) *Steel and magniz.*
- 37) **Which part of cell is responsible for respiration:**
a) *Nucleus*
b) *Cell wall*
c) Mitochondria
d) *Golgi bodies*
- 38) **Cell wall is present in :**
a) *Animal cell*
b) Plant cell
c) *Both of above*
d) *None of above*
- 39) **Ecological balance can be disturbed by:**
a) Overpollution
b) *Pantching up ozon holes*
c) *Eating fruits*
d) *Planting trees*
- 40) **Grafting is the process used in**
a) *Fission*
b) *Budding*
c) *Regeneration*
d) Vegitative propagating