The Bodwad Sarvajanik co operative Education Society Bodwad

Arts Commerce And Science College, Bodwad

Question Bank

Class- T.Y.B.Sc.	Sem – VI
Subject - CH602 Inorganic Chemistry.	
1. The size of a nanomaterial is in betweennm.	
a. 2 to 100	
b. 50 to 10	
c. I to 100	
d. 70 to 100	
2 The size of a quantum dots is in betweennm.	
a. 2 to 7	
b. 1 to 100	
c. 2 to 100	
d. 3 to 50	
3. All the bottom up technique starts with thematerial. 3	
a. Gas	
b. liquid	
c. solid	
d. both a and b	
4. The top up technique starts with thematerial.	
a. Gas	
b. liquid	
c. solid	
d. both a and b	

Chemical vapor deposition technique is involved in..

c. both a and b
d. none of the above
6 Mechanical alloying is a process.
a. Non equilibrium
b. equilibrium
c. both a and b
d. None of the above
7. Surfactants plays an important role in Of nanoparticles.
a. Conducting property
b. shape and size
c. shape d size
8. Many inorganic solids are intensely coloured and are used as
inks, plastics, glasses, and glazes.
a.)Pigmentb. Fiberc. Fueld. Film
9. The blue colour of CoAl,04 and CaCuSi,O10 stems from the presence of in
the visible region of the electramagnetic spectrum.
a) s-s transition

a. Bottom up approach

a. Bottom up approach

b. Top-down approach.

c. both a and b

5 Chemical vapor deposition technique is involved in..

d. none of the aboveb. Top-down approach.

b) p-p transition
c) d-d transitions
d) None of these
10. Egyptian blue has formula 3.
a) MgCuSi,O10
b) CaCuSi,O10
c)BaCuSi,O10
d) SrCuSi,010
11 is obtained by partial combustion or pyrolysis (heating in the absnce of air) ***
of hydrocarbons.
a) Carbon black
b) Red oxide
c) Prussian blue
d) Indigo blue
12. Inorganic solids exhibit intense colour due to.
a. Ss transition
b) p-p
c) p-d transition
d) d-d transition
13. The yellow-orange colour of PbCrO, is due to a) Charge transfer
b) p-d transition
c) d-d transitions
d) s-s transition
14. The formula of Prussian blue is
a) K[Fe(CN).
] b) Fe"Fe"(CN).
c)K.[Fe(CN).]

21. BiMn,O10 can absorb in the region wavelength.
a) infrared
b) ultraviolet
c) visible
d) radiowproper
14. Zinc phosphate has property
a) Antiviral
b) Anticorrosive
c) Antimalarial
d) None of the above
22. Exposure of solid Co to alkali metal vapour results in the formation of a series of
compounds of formula.
a) MxCa0
b) MooCx
c) MxCs0
d) MxCs0
23. The structure of K6C60 is a .
a) body-centered cubic
b) face-centered cubic
c) both a and b
d) None of the above
24 The first one-dimensional metal Pt complex was made in.
a) 1846
b) 1946
c) 1886
d) 1950
25. the first one-dimensional metal Pt complex.

a) NASICON
b) KSP
c) KCP
d) None of these
26. The ferromagnetic molecular inorganic compounds have chains of alternating
[M(n -Cp")»J cation and. anion.
a) TNCQ
b) TCNE
c) TTF
d) TMTSF
27 recently developed fast- cationic conductors.
a) TNCQ
b) TCNE
c) NASICON
d) TMTSF
In AgHgl, below 50'C Ag' and Hg' ions are
a) tetrahedrally
28. liquids and include both. Coordinated by I ions.
a.tetrahedraly
b) trigonally
c) tetragonally
d) None of the above
29. erystalline compounds possess properties that lie between those of solids and
a) tetrahedrally
b) Vapour
c)Liquid
hoice Questions:

30. Dry process for manufacturing of cement is used only when
a) Raw materials are quite hard
b) Raw materials are quite soft
c) Raw materials are chief
d) None of these
31 Decomposition of limestone/dolamite takes place at
a) 900-1100 °C
b) 1400-1500 °C
c) 500 700 C
d) None of these
32. Role of gypsum is
a) it acts as retarder
b) It act as softener
c) It act as hardener
d) all of above
33. While manufacturing of cement main raw materials used are
a) Calcareous and argillaceous
b) Giypsunm
c) MgO
d) Mn O
34. Clinker is
a) Hard granular, greenish black or grey coloured mass
b) CS
c) C,S
35. Flash set of cement is
a) Initial set of the cement
b) Final set of cement

c) Hardening of cement
d) quick stiffening of cement
36. compound is responsible for setting by retardation of gypsum.
a) CA
b) CS, CS
c)Fe O
d) CS
37. hasgiven name to Cement as Portland Cement.
a) Albert Aspidi
b) Morrison Aspidin
c) Peter Aspidin
d) Joseph Aspidin
38. General Cement having proportion of rawW materials is
CaO 2.8 SiO +1.2 AlO, +0.65 Fe,O3
a) 0.66 to 1.02
b) 1.02 to 0.66
c) 1 to 2
d) 1.33 to 0.55
39. The calcareous materials which supply -
a) CaO
b) CO
c) CO
d) HCO
40. if present more than 3% which imparts brown color to the cement.
a) Mgo
b) MnO3
c)P:Os

d) CaO
41. In manufacture of cement, reactions are taking place in -
a) kiln
b) furnace
c)water
d) air
42. According to setting or hardening of cement is due to interlocking of the
crystals formed during hydration.
a) Lechatelier
b) Michal
c) Le Cooper
d) Michaelis
43. It was made by calcination natural clay bearing limestones, which hydraulic to obtained
cement.
a) Natural
b) Pozzolana
c) Portland
d) Lime
44. It was made from lime and pozzolana mixed with water to produce- cement.
a) Natural
b) Pozzolana
c)Portland
d) Lime
45. Pozzolana means a
a) Volcanic ash
b) fire clay rice husk ash
c)Significant quantities SiO; and Al,0,

d) All of the above.
46. cement is white in colour and not containing tetra calcium alumino ferrite
CAF and low amount of MgO.
a) White
b) Pozzolana
c) Portland
d) Lime 18.
47. cement is specially used for the decorative purposes
a) White
b) Pozzolana
c) Portland
d) Lime
48. In quick setting cement IS mainly added to accelerate the setting time fast.
a. Alluminium sulphate
b. Calcium sulphate
c. Teracalcium alluminium ferrite
d. Allumina
49. The farmula of slacked lime is,.,.
a. Calcium carbonate
b. Calcium hydroxide
c. Calcium oxide
d. calcium sulphate
50. The element stimulates root formation and growth in plants. for proper growth of plant
a) Nitrogen
b) Potassium
c)Phosphorus
d) Iron

51. The pH of the soil should be between
a) 7 to 8
b) 5 to 6
c) 10 to 12
d) 6 to 7
51. In 16-18-10 mixture there is total of
3. % of active fertilizer.
a) 24 %
b) 32 %
c) 51 %
d) 44%
51fertilizer is used as softening agent.
a) Urea
b) Superphosphate
c) Ammonium sulphate
d)Sulphate of pottash
52. Elements consumed in large amounts by plants for their growth are called .
a.natural nutrients
b. Secondary nutrients
c. Primary nutrients
d. Micronutrients
53. Liquid NH3 and CO2 are added to autoclave under atmosphere Pressure and at 185 $^{\circ}\text{C}$ temperature to form a melt of urea.
a) 200
b) 250
c) 150
d) 180

54. Superphosphate containing Of available P2Os.	
a) 20-22%	
b) 16-18 %	
c) 47-48%	
d) 57-58 %	
55 is part of chlorophyll and thus plays a role in photosynthesis.	
a) Mg b) Ca c) Mn d) Cu	
56. The reaction of super phosphate take place in	
a. rotary furnace	
b) Rotary granulatorc) c) rotary kilnd) rotary cooler	
57 One of the potassium fertilizer, KCI is also called of potash	
a) K2O	
b) Muraitec) Sulfated) d) nitrate	
58. Good fertilizers should be increase Of soil	
a) pH b) Fertility c) Water level d) Yield	
59. Potassic fertilizers contains potassium in the form of	
a) KCI b) K2SO c) KNO	
d) K,O	

b) Muraite			
c) sulphate			
d) nitrate			
61. Elements consumed in minute quantity by plants for their growth are called			
a) Natural Nutrients			
b) Secondary Nutrients			
c) primary nutrients			
d) Micronutrients			
62. Elements consumed in major quantity by plants for their growth are called			
a. Primary Nutrientsb. Secondary Nutrientsc. Tertiary Nutrientsd. Macronutrient			
63. An alloy is			
a) Pure mnetal			
b) Mixture of metal in any proportion			
c) of metal in fixed proportion			
d) Mixture of two non metal			
64. Which of the following is not an allay? 2)			
a) Steel			
b) Copper c) Brass			
d) Bronze			
65. An alloy is a type of. 3)			

60. One of the potassium fertilizer, K2SO, is also called.... . of potash.

a) K,O

67. The	e first alloy made by humans was.
c)	Steel Brass Bronze Mild steel
68. Fer	rous alloys are.
b) c) d)	Metal Non-metal Eartherm None of the abeve chrome is an alloy of
b) c)	Iron, cobalt, nikel b) Iron, carbon, cobalt Iron, nikel, chromium d) Iron, zine, nikel
70. Ste	eel contains% chromium.
a)0 to	10
b) 5 to	15
c) 16 t	o 20
d) 20 t	to 30
71. Alr	nico is otherwise called as
a) b) c)	Aluminum nickel- carbon steel b) Aluminum copper-cobalt steel Aluminum nickel-zinc steel

a) Horigenousb) Heterogeneousc) Intermetalicd) All of the above

d) d) Aluminum nickel-cobalt steel

a) a) Aluminum nickei-cobait steel
72. Steel contains .% of cobalt.
a) 40 to 60 b) b) 15 to 20 c) c)0 to 200 d) d) 30
73. Alnico is highly
a) Paramagnetic
b) Magnetic
c) a &b
d) None of above
74) The first step in producing steel is from
 a) Zinc oxides b) Iron oxides c) Mineral oxides d) None of above
75. In secondary steel making is a process in which alloying metal are added And a removed.
a) Refining, steelb) mixing, impurities
c), refining impurities
d) mixing, steel
76) In steel making the impurities are removed through
 a) Reduction b) Oxidation c) None of these d) Both a &b

77) Decarburization occur during the interaction between the atom.

a) Cobaltb) Carbonc) Oxygend) Both b &c

78. The melting point of non-ferrous alloys are than those of ferrous alloys.	
a) Zero	
b) Higher	
c) Lower	

- 79. In steel iron is material.
- a. none of these

b.non ferromagnetic

d) Constant

- c. Ferromagnetic
- d. Magnetic