## Arts, Commerce and Science College, Bodwad.

## **Question Bank**

T.Y. B.Sc. Sem-V	Subject: - Industrial Chemistry (Chemistry)
1. Commercialization of a chemical	
a) Unit operation	
b) Unit process	
c) Batch process	
d) Continuous process	
2. Amongst the following is an unit	operation.
a) Substitution reaction	
b) Addition reaction.	
c) Elimination reaction.	
d) Crystallization	
3. Chemical Industries is considered	as
a) Societal problem solver	
b) Societal problem creator.	
c) Helpless for society	
d) None of these.	
4. Capable of being represented grap	phically and distinguish goods and services
a) Copy write act.	
b) Patent act.	
c) Trade Mark act.	
d) Technical feasibility.	

5. Direct Raw material are.....

a) Directly incorporated into the final product
b) Semi processed.
c) Cannot be incorporated into the product
d) Must be processed.
6. Amongst the following is an unit process.
a) Rearrangement reaction.
b) Drying.
c) Melting.
d) Adsorption and absorption.
7. Control of process variable such as Concentration, temperature, pressure etc. is called
a) Quality control.
b) Pollution control
c) Quality Assurance
d) Process control.
8. BIS means
a) Bureau of Indian system.
b) Bureau of Indian survey.
c) Bureau of Indian Standards.
d) Bureau of Indian science.
9. In the chemistry the development of sustainable chemical protocols and product is known as,
a) Unit development
b) Sustainable development.
c) Batch development.
d) Continues development

10. The part of quality management, which focused on providing confidence that all the quality requirements will be fulfilled is called as
a) Quality Assurance.
b) Quality control.
c) Quality management.
d) All of above
11. Sugar Cane is also known as
a) Sucrose.
b) Glucose.
c) Fructose.
d) Maltose.
12. The molecular formula of sucrose is
a) C10H22O10.
b) C14H26O10.
c) C12H22O11.
d) C15H30O12.
13. Crystals are separated from mother liquor by
a) Filtration.
b) Centrifugation.
c) Decoloration.
d) Affination.
14. For clarification of juice, which gas is used?
a) So2
b) Co2
c) H2S

d) Only a and b are correct.
15. Celotex is manufactured from
a) Molasses.
b) Bagasse.
c) Charcoal.
d) Latex.
16. Calcium sucrosate is converted into sucrose byprocess.
a) Defecation.
b) Evaporation.
c) Carbonation.
d) Caramelization.
17. Presently, sugar is bagged ingrades.
a) 2
b) 4
c) 6
d) 8
18. The CaSo3 formed in the sulphitation process is helpful
a) To keep reducing atmosphere.
b) Prevents oxidation.
c) To prevents darkening of juice.
d) All of above.
19. Due to heating, invert sugar turn brown more rapidly than
a) Glucose.
b) Fructose.
c) Sucrose.

d) None of these.
20. In sulphitationgas is used.
a) So3
b) So2
c) Co2
d) H2S
21. In Carbonationgas is used.
a) NO2
b) SO2
c) CO2
d) CO
22. The extracted juice is immediately made alkaline by addition of
a) NH3
b) Milk of lime
c) NaOH
d) Na2CO3
23. The function of SO2 in clarification is
a) Neutralization excess lime.
b) Bleaches coloring matter.
c) Decreases viscosity of juice.
d) All of above.
24. Defecation is the process of preparation of raw liquor for
a) Filtration and clarification.
b) Filtration and evaporation.
c) For settling of juice.

d) None of these.
25. Conversion of Sucrose into glucose & Fructose is known as
a) Racemization.
b) Inversion.
c) Retention.
d) Filtration.
26. Saturated solution of sugar dissolves more sugar on addition of salt is called as
a) Carbonation.
b) Sulphitation.
c) Caramelization.
d) Melassigenic effect.
27. The process of Affination is carried out in
a) Converter.
b) Mingler.
c) Multiple effect evaporator.
d) Centrifuge machine.
28. The crystallization of sucrose in vaccum pan is called as
a) Sugar boiling.
b) Sachharification.
c) Sugar solubalization.
d) All of these.
29. The semisolid mass consisting of sugar crystals and molasses is called as
a) Caramels.
b) Mother liquor.
c) Massecuite.

d) All of these
30. Addition of milk of lime in the juice, precipitates pectic substance into
a) Insoluble calcium pectate .
b) Soluble calcium pectate.
c) Calcium hydroxide.
d) Pectic acid.
31. During clarification, in which layers clear juice is present?
a) Top layer.
b) Bottom layer.
c) Middle layer.
d) All of these.
32. The screening process is essential to
a) Remove sulphur particals.
b) Remove colors.
c) Remove non-sugars.
d) Remove floating impurities.
33is the fibrous portion of Cane from which juice is extracted.
a) Molasses.
b) Bagasse.
c) Leaf.
d) Root.
34. During clarification, out of three layers, the bottom layer is called as
a) Mud layer.
b) Thick scum layer.
c) Sugar juice layer.

d) Inner layer.
35. From last evaporator, the thick syrup containing aboutsolid matter is obtained.
a) 20%
b) 40%
c) 60%
d) 80%
36. The removal of film Molasses from the surface of raw sugar crystals is called as
a) Melting.
b) Clarification.
c) Filtration.
d) Affination.
37. The mother liquor passes through lining with wire cloth, because of theforce excerted.
a) Electrical.
b) Centrifugal
c) Centripetal.
d) Van see walls.
38. To have high sugar recovery, it is essential to remove present in juice before crystallization.
a) Acids.
b) Bases.
c) Phenols
d) Salts.
39. To enhance the rate of coagulation and settling of the precipitatesare added.
a) Catalysts.
b) Non electrolytes.
c) Polyelectrolytes.

d) Reducing agents.
40. In India, decolourisation of sugar syrup is carried out by
a) Granular carbon.
b) Animal charcoal.
c) Carbon dioxide.
d) Soot.
41. Power alcohol is used to
a) Electricity.
b) Generate power.
c) Fuel.
d) Disinfectant
42. The process which makes alcohol undrinkable is called
a) Industrial alcohol.
b) Denatured alcohol
c) Absolute alcohol.
d) Fusel alcohol.
43. The wash of wort contains% of alcohol.
a) 15-20 %
b) 6-10%
c) 25-30%
d) 40-50%
44. Fusel oil mainly contains
a) Methyl alcohol.
b) iso-propyl alcohol.
c) iso-butyl alcohol.

d) Amyl alcohol.
45. The termis now applied to change brought about: by microorganisms.
a) Concentration.
b) Fermentation.
c) Aeration.
d) Crystallization.
46is obtained by the distillation of wine.
a) Rum.
b) Gin.
c) Brandy.
d) Vodka.
47. Maltose is converted into glucose by Enzyme.
a) Maltase.
b) Diastase.
c) Invertase.
d) Zymase.
48. Sucrose is converted into glucose & Fructose by enzyme.
a) Maltase.
b) Diastase.
c) Invertase.
d) Zymase.
49. Enzyme Zymase producesfrom glucose.
a) Acetone.
b) Ethyl alcohol.

c) Acetic acid.

d) Acetaldehyde.
50. Which Fermentation process is carried out at about 15 degree C temperature?
a) Top Fermentation.
b) Middle Fermentation.
c) Bottom Fermentation.
d) End Fermentation.
51. Fermentation process usually proceeds well only in the presence of
a) CO2
b) SO2
c) H2S
d) Air.
52is obtained from grapes juice.
a) Beer.
b) Wine.
c) Whisky.
d) Vodka.
53. Coffee's still is used for
a) Distillation.
b) Crystallization.
c) Fractional distillation of wash.
d) Caramelization.
54. Denaturated alcohol is often sold as
a) Proof spirit.
b) Methylated spirit.
c) Rectified spirit.

d) Fusel oil.
55. Beer is obtained from
a) Black strap molasses.
b) Grapes juice.
c) Maize.
d) Barely
56. Generally Black strap molasses contains% of Sucrose.
a) 35-40
b) 50-60
c) 60-70
d) 75-80
57. In presence of Diastase starch is converted into Maltose or salt sugar is called as
a) Mashing
b) Hydrolysis
c) Drying
d) Sparging
58. The Fermentation process was explored by
a) Liebig.
b) E. Butchner
c) Louis Pasteur
d) Either Ford
59. Glucose is converted into ethyl alcohol by enzyme
a) Zymase
b) Maltase
c) Lipase

d) Invertase					
60. The spirit stronger than proof spirit is called					
a) Under proof spirit					
b) Over proof spirit					
c) Absolute alcohol					
d) Rectified spirit.					
61. The process of making alcohol undrinkable is called as					
a) Saturation.					
b) Rectification.					
c) Denaturation.					
d) Fermentation.					
62. Which enzyme produced by yeast bring about Hydrolysis of Sucrose into glucose and Fructose					
a) Zymase.					
b) Invertase .					
c) Maltase.					
d) Azobactor.					
63. The alcohol obtain from coffeys still is about% pure.					
a) 78-80%					
b) 90%					
c) 96%					
d) 70%					
d) 70% 64. Fructose is converted into ethanol by enzyme.					
64. Fructose is converted into ethanol by enzyme.					

c) Invertase.					
d) Diastase.					
65. Starch gets liquified at the temperature					
a) 35 degree Celcies					
b) 45 degree celcies.					
c) 30 degree celcies					
d) 65 degree celcies.					
66. Fermentation of monosaccharides is					
process.					
a) Endothermic.					
b) Exothermic.					
c) Both a & b					
d) None of above.					
67. Starch is converted into Maltose by enzyme.					
a) Maltase.					
b) Diastase.					
c) Invertase.					
d) Zymase.					
68. Germinated barely or wheat is called as					
a) Salt					
b) Brine					
c) Malt					
d) Spirit					
69. Rectified spirit contains% ethyl alcohol.					
a) 95.5					

b) 96.7
c) 96.9
d) 96.5
70. Sugar industries in Maharashtra at present there are co-operative sugar factories in operation.
a) 172
b) 173
c) 174
d) None of these.
71. Synthesis gas is mixture Synthesis
a) Natural source.
b) H2O+CO2
c) CO+H2
d) H2O+C
72. Acetylene is used for production of
a) Per acetic acid.
b) Butadiene.
c) Vinyl Acetate.
d) All of these.
73. Cracking of methane to acetylene is
Reaction.
a) Endothermic
b) Exothermic
c) Both a & b
d) None of above.

74. The CO is desulphurised by passing over						
a) ZnO						
b) CrO3						
c) Activated carbon.						
d) All the above.						
75. In manufacturing of glycerin via allyl chloride,% of yield is obtained.						
a) 20.						
b) 40.						
c) 60.						
d) 80						
76. Methane is used for the preparation of						
a) HHCl3+ CCl4.						
b) Dimethyl sulphate and Dimethyl ether.						
c) Acetylene and formic acid.						
d) All of these.						
77. Methyl benzene is obtained from Methyl cyclohexane by						
a) Hydrogenation						
b) Hydration.						
c) Dehydration.						
d) Dehydrogenation.						
78. In the production of85% H2SO4 trickle down from top.						
a) Isopropanol.						
b) Acetone.						
c) Methanol.						

d) All of these.
79. Petrochemicals are derived from
a) Diesel.
b) Synthetic sources.
c) Gasohol.
d) Petroleum including natural gas.
80. The steps involved in the production of acetone by oxidation of propylene are
a) Reactor scrubber, Fractional distillation.
b) Vaporizer, Reactor, condenser.
c) Reactor, condenser, scrubber.
d) All of these.
81. The Petroleum found inrocks.
a) Igneous.
b) Metamorphic.
c) Sedimentary.
d) None of these.
82. Oil saturated rocks shows electrical resistivity.
a) Lower.
b) Magnetic.
c) Gravimetric.
d) Electric.
83. Efficiency of petrol is indicated by
a) Octane number
b) Cetane number
c) Power alcohol

d) Petrohol
84. Iso-octane has a Octane number
a) 0
b) 10
c) 100
d) 110
85. Octane number of triptane is
a) 100
b) 110
c) 0
d) 124
86. Which of the following increases Cetane number value?
a) Alkylnitrates.
b) Alpha Methyl napthalene.
c) Iso-octane.
d) Napthalene.
87% of alcohol requires mixing with gasoline for Gasohol.
a) 95
b) 96.5
c) 99.5
d) 90
88. The Petroleum compound containing 5_16 carbon atoms are
a) Liquids.
b) Solids.
c) Gases.

d) All of these.
89. Breaking of larger molecules into smaller molecules in presence of heat alone without catalyst is
a) Hydrocracking.
b) Thermal catalyst.
c) Catalytic cracking.
d) All of these.
90. Which of the following raw materials used for manufacture of power alcohol or ethanol?
a) Saccharine material.
b) Cellulosic material.
c) Starchy material.
d) All of these.
91. Octane no. of 2, 2,4- trimethyl pentane is
a) 100
b) 0
c) 70
d) 90
92method is fastest method for exploratory surveying.
a) Seismic
b) Magnetic.
c) Gravimetric.
d) Electric.
93. Legally permitted, maximum limit of TEL isper gallon.
a) 5 ml
b) 30 ml

c) 40 ml					
d) 3 ml					
94. Water gas is a mixture of					
a) Natural sources.					
b) H2O+CO2					
c) CO2+H2					
d) H2O+C					
95. Exploration is					
a) Searching & Estimating Petroleum prospect.					
b) Use of Petroleum.					
c) Refining of Petroleum.					
d) All of these.					
96. The ignition quality of a Diesel fuel is indicated by					
a) Octane number.					
b) Cetane number.					
c) Power alcohol.					
d) Petrohol.					
97. Cetane no. is					
a) Capability of gasohol fuel self-ignition					
b) Capability of gasohol gas fuel self-ignition					
c) Capability of hydrocarbon gas fuel self-ignition.					
d) All of these.					
98. Shell rock is					
a) Straight chain hydrocarbon.					

b) Organic matter called kerogen.

c) Branched chain hydrocarbon.						
d) None of these.						
99. The speed of shock wave in Sedimentary rocks is about meter/second.						
a) 330						
b) 3000						
c) 4300						
d) 500						
100. n-hexadecane has cetane number value is,						
a) 0						
b) 45						
c) 90						
d) 100						