

University of Mumbai
Online Examination 2020

Program: BE Chemical Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester V

Course Code: CHC505

Course Name: Chemical Technology

Time: 1 hour

Max. Marks: 50

Note to the students:- All Questions are compulsory and carry equal marks .

Q1.	Reaction of orthophosphoric acid with soda ash produces
Option A:	sodium tripolyphosphate (STPP)
Option B:	tricresyl phosphate
Option C:	tributyl phosphate
Option D:	nitrophosphate
Ans:	
Q2.	Ammonium sulphate fertiliser is
Option A:	the highest concentration nitrogenous fertiliser.
Option B:	the best fertiliser for paddy.
Option C:	a basic fertiliser.
Option D:	a neutral fertiliser.
Ans:	
Q3.	Liquid ammonia is not used as such a fertiliser in tropical countries like India, because
Option A:	its N ₂ content is very low.
Option B:	it is very costly.
Option C:	it will evaporate on spraying.
Option D:	it is not available
Ans:	
Q4.	Catalyst used in the manufacture of NH ₃ by Haber's process is finely divided
Option A:	nickel

Option B:	iron
Option C:	vanadium pentoxide
Option D:	alumina
Ans:	
Q5.	Which of the following polymers is the most flexible for use in packaging?
Option A:	Nylon-66
Option B:	LDPE
Option C:	HDPE
Option D:	PVC
Ans:	
Q6.	Mylar and Dacron are products obtained from :
Option A:	HDPE
Option B:	PVC
Option C:	Polyester
Option D:	Nylon-66
Ans:	
Q7.	Ziegler type catalysts are used in the manufacture of :
Option A:	Nylon-6
Option B:	Nylon-66
Option C:	LDPE
Option D:	HDPE
Ans:	
Q8.	Terephthalic acid is used in the manufacture of :
Option A:	Nylon-6
Option B:	Polyester fibre
Option C:	PVC
Option D:	Nylon-66
Ans:	
Q9.	PVC is manufactured from _____ chloride monomer.
Option A:	Phenyl
Option B:	Vanadyl
Option C:	Vinyl
Option D:	Benzyl
Ans:	
Q10.	HDPE is manufactured by a _____ pressure process.
Option A:	Very high
Option B:	Low
Option C:	Medium
Option D:	High

Ans:	
Q11.	Which of the following is obtained as a co-product in the Dual process for manufacture of soda ash?
Option A:	Ammonium phosphate
Option B:	Ammonium nitrate
Option C:	Ammonium sulphate
Option D:	Ammonium chloride
Ans:	
Q12.	_____ is used as diaphragm in manufacture of caustic soda by diaphragm cell process.
Option A:	Iron
Option B:	Mercury
Option C:	Asbestos
Option D:	Platinum
Ans:	
Q13.	In manufacture of caustic soda, formation of amalgam occurs at the cathode in :
Option A:	Only Membrane cell process
Option B:	Only Diaphragm cell process
Option C:	Only Mercury cell process
Option D:	Both Membrane cell and Diaphragm process
Ans:	
Q14.	The enzyme catalysts used in the manufacture of ethanol by fermentation of molasses are :
Option A:	Invertase and zymase
Option B:	Lipase and Lactase
Option C:	Glucose isomerase and Glucose oxidase
Option D:	Protease and Cellulase
Ans:	
Q15.	Which of the following is the most suitable feed for platforming process (reforming) ?
Option A:	Olefinic hydrocarbon
Option B:	Naphtha
Option C:	Fuel oil
Option D:	Atmospheric residue
Ans:	
Q16.	Hydrofining is the most recent and effective method for the
Option A:	removal of sulphur.
Option B:	improvement of smoke point.
Option C:	reduction of breathing loss.
Option D:	improvement of viscosity index

Ans:	
Q17.	Paraffins are desirable in lubricating oil, as it has got high
Option A:	Aniline piont
Option B:	viscosity index
Option C:	smoke point
Option D:	pour point
Ans:	
Q18.	The catalytic cracking of heavier petroleum fraction is done to produce mainly
Option A:	Gasoline
Option B:	Asphalt
Option C:	diesel oil
Option D:	Tar
Ans:	
Q19.	Gasoline extracted from natural gas (by compression and cooling) is called the. gasoline.
Option A:	polymer
Option B:	unleaded
Option C:	casing head
Option D:	straight run
Ans:	
Q20.	Liquefied petroleum Gas (LPG) used for the household cooking comprises mainly of
Option A:	propane & butane
Option B:	butane & ethane
Option C:	methane & ethane
Option D:	methane & carbon monoxide
Ans:	
Q21.	Bleaching of paper pulp is done with
Option A:	activated clay
Option B:	Bromine
Option C:	chlorine or chlorine dioxide
Option D:	magnesium sulphite
Ans:	
Q22.	Which is a high grade pulp ?
Option A:	Rag pulp
Option B:	Mechanical pulp
Option C:	Sulphate pulp
Option D:	Sulphite pulp

Ans:	
Q23.	In Kraft process of paper manufacture, white cooking liquor consists of caustic soda
Option A:	sodium sulphide & sodium carbonate
Option B:	sodium sulphite & sodium bicarbonate.
Option C:	sodium sulphite & sodium sulphide
Option D:	sodium sulphite & sodium tribicarbonate.
Ans:	
Q24.	-----is normally used for manufacturing of refrigerator component and transistors parts.
Option A:	Polypropylene
Option B:	Polystyrene
Option C:	Polyester
Option D:	Polyurethane
Ans:	
Q25.	Phthalic anhydride is used ____
Option A:	in making pvc
Option B:	as plasticisers
Option C:	in insecticide manufacture.
Option D:	for making nylon-6
Ans:	

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	B
Q3.	C
Q4	B
Q5	B
Q6	C
Q7	D
Q8.	B
Q9.	C
Q10.	B
Q11.	D
Q12.	C
Q13.	C
Q14.	A
Q15.	B
Q16.	A
Q17.	B
Q18.	A
Q19.	C
Q20.	A
Q21.	C
Q22.	C
Q23.	A
Q24.	B
Q25.	B
