

Padasalai⁹S Telegram Groups!

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- Padasalai's NEWS Group https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
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+2 CHEMISTRY Important Questions

UNIT - 1 METALLURGY

Two marks

Book Back

1. What is the difference between minerals and ores?

Book inside

- **1.** What do you meant by cementation?
- 2. What is auto reduction
- 3.Difference between roasting and calcination
- 4. Application of Aluminium
- , zinc , Iron , copper , gold
- 5. Why Iron pillar remain uncorroded (19)

Long answers Book Back

- 1. Describe a method for refining nickel.(Mond processs)
- 2.Explain zone refining process
- 3. Explain the principle of electrolytic refining with an example.(or silver)
- 4. Give the limitations of Ellingham diagram.
- 5. Explain the electrometallurgy of aluminium. Or Hall Herold Process

Book inside

- 1.Explain froth floatation method.
- 2.Explain about Magnetic separation
- 3.Explain about Van-Arkel method for refining zirconium/titanium:
- 4.Difference between calcination and roasting

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- 2. What are the various steps involved in extraction of pure metals from their ores?
- 3. Limitations of Ellingham diagram(13)
- 4. Give the uses of zinc.
- 5.Explain aluminothermite process (9)
- 6.Application of Ellingham diagram (12)

See all the application of metals and Ellingham diagram

CHAPTER - 2 p BLOCK ELEMENTS I

Two marks

Book Back

- 1..Describe briefly allotropism in p- block elements with specific reference to carbon.
- 2. Boron does not react directly with hydrogen. Suggest one method to prepare diborane from BF₃.
- 3. What is catenation? describe the catenation property of carbon
- 4. Write a note on Fisher tropsch synthesis.
- 5. AlCl₃ behaves like a lewis acid .Substantiate this statemen
- 6. Write a short note on hydroboration
- 7. How will you identify presence of borate radical

8. Strcuture of Co and Co_2

Book inside

- 1. What is burnt alum
- 2. Explain McAfee Process

STUDY MATERIAL

- 5. Give the basic requirement for vapour phase refining
- 6. Which type of ores can be concentrated by froth floatation method? Give two examples for such ores.
- 3. What is inert pair effect
- 4. How will you prepare borax beads from borax
- 5.Prepraration and action of heat of borax
- 6.Structure of boric acid
- 7. Write a note on carbon nanotubes

Long answers

Book Back

- 1. Write the Anomalous properties of the first elements of p block
- 2. Explain about structure of diborane

Book inside

- 1. Difference between graphite, diamond, fullerene
- 2. How is inorganic benzene prepared?
- 3. How is potash alum prepared?
- 4. Explain about Types of Silicones and their preparation
- 5.Commom allotropes of pblock elements (31) can be asked in two marks
- 6.Uses of boron, borax, boric acid, diborane, aluminium chloride, Boron trifluoride, alum, Co, Co₂
- 7.Uses of silicones

8. Write a note on three dimensional silicates and zeolites

See all the uses and preparation, chemical properties (action of heat)

Unit – 3 p BLOCK **ELEMENTS – II**

Two marks **Book Back**

- 1. Explain why fluorine always exhibit an oxidation state of -1?
- 2. What are inter halogen compounds? Give examples
- 3. Why fluorine is more reactive than other halogens?
- 4. Give a reason to support that sulphuric acid is a dehydrating agent.
- 5. Write the reason for the anamolous behaviour of Nitrogen.
- 6. Write the molecular formula and structural formula for the following molecules
- a)Nitric acid b)dinitrogen c)phosphoric pentoxide acid d)phosphine

Study all book back questions

Book inside

- 1. What is Aquaregia?.Write down its use.
- 2. Write down tests for sulphate/sulphuric acid
- 3. Habers process

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- 4.Reducing property of ammonia, how will you prepare nitrogen trichloride 5.Difference between white and red phosphorus 6. Write down the preparation and reducing property of phosphine 7. Allotropic form of sulphur (75) can be asked in two marks 8. How will you estimate
- ozone (75)
- 9. Why bleaching action of sulphur dioxide is temporary 10. How will you prepare bleaching powder 11. What is aquaregia or royal water ? Write down its use
- 12.Uses of noble gases 13. How will you prepare chloride in the laboratory?

Long answers **Book Back** 1.Complete the reaction

Book inside

- 1. Explain about Holmes
- 2. Prove that nitric acid is an oxidising agent & nitrating agent.
- 3. Write about the bleaching action of chlorine.
- 4. What are the Properties of inter halogen compounds
- 5. Explain the manufacture of chlorine by electrolytic method and Deacon's process

STUDY MATERIAL

6.Explain about Manufacture of sulphuric acid by contact process 7. Show that sulphuric acid is an oxidising agent 8. How is nitric acid manufactured using Ostwald's process? 9. Explain the action of nitric acid on metals with one example. 10.Preparation of Zenon fluoride

See all the preparation, uses and structure

Unit – 4 TRANSITION **AND INNER TRANSITION ELEMENTS**

Two marks **Book Back**

- 1. What are transition metals?. Give four examples
- 2. What are inner transition elements?
- 3, Justify the position of lanthanoids and actinoids in periodic table
- 4, Explain why compounds of Cu⁺² are coloured but those Zn⁺² are colourless.
- 5. Describe the preparation of potassium dichromate, potassium permanganate
- 6. Which is more stable? Fe^{3+} or Fe^{2+} - explain.
- 7. What are interstitial compounds?
- 8. Calculate the number of unpaired electrons in Ti³⁺,

Mn²⁺ and calculate the spin only magnetic moment 9. Why do zirconium and Hafnium exhibit similar properties? 10.Structure of dichromate and permanganate ion

Book inside

- 1. What is Bayer's reagent and write down its use
- 2. Explain about Hume-Rothery rule to form a substitute alloy
- 3. What are the properties of interstitial compounds
- 4. What is Chromyl chloride test
- 5.Application of transition elements (101)
- 6.Eventhough Zinc , Cadmium , and Mercury do

not have partially filled dorbital, why they are called as transition metals (102)

- 7. Why do transition metals form complexes?
- 8.Why HCl cannot used for making KmNO₄ medium acidic ? (118) 9.Calculate the equivalent
- weight of KmNO₄ in acid, basic, neutral medium (118)
- 10.Write down the electronic configuration of lanthanides and actinides

Long answers Book Back

1. Explain the oxidation state of 4d series elements

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- 2. Explain the variation in $E_{M^{2+}/M}^{0}$ 3d series.
- 3. What is lanthanide contraction and what are the effects of lanthanide contraction?
- 4. Compare lanthanides and actinides
- 5. Describe the variable oxidation state of 3d series elements.

Book inside

- 1. Explain about preparation of potassium permanganate and potassium chromate
- 2. Potassium permanganate is a strong oxidising agent. Explain (see all the reaction)
- 3. Potassium dichromate is powerful reducing agent .Explain (see all the reaction)

Unit – 5 COORDINATION CHEMISTRY

Two marks Book Back

- 1.[CuCl₄]²⁻ exists while [CuI₄]²⁻ does not exist why?
- 2. Give an example of coordination compound used in medicine and two examples of biologically important coordination compounds.
- 3. In an octahedral crystal field, draw the figure to show splitting of d orbitals.
- 4. Give one test to differentiate [Co (NH₃)₅

STUDY MATERIAL

Cl]SO₄ and [Co(NH)₃ SO₄]Cl

- 5. What is linkage isomerism? Explain with an example
- 6. What are hydrate isomers? Explain with an example.
- 7. What is crystal field stabilization energy (CFSE) ?
- 8. What are the limitations of VB theory?

Book inside

- 1. What are the Limitations of Werner's theory:
- 2. Define Coordination sphere, Coordination polyhedron, Coordination number
- 3. In an tetrahedral crystal field, draw the figure to show splitting of d orbitals
- 4. What is spectrochemical series ?. Explain the difference between a weak field ligand and strong field ligand
- 5.Stability constant (163) and its significance (164) 6.Cisplatin (167)

Long answers Book Back

- 1.Based on VB theory explain why [Cr(NH₃)₆] is paramagnetic, while [Ni (CN)₄] is diamagnetic.
- 2. Explain optical isomerism in coordination compounds with an example.

- 3. Give the difference between double salts and coordination compounds.
- 4. Write the postulates of Werner's theory.
- 5. Discuss briefly the nature of bonding in metal carbonyls.

Book inside

- 1.Explain about Coordination isomers , hydrate , ionisation , linkage isomers
- 2. What are the Main assumptions of Valence bond theory (VBT)
- 3. Types of complexes
- 4.Explain crystal field theory
- 5.Application of coordination of complexes (166, 167)

Using VB Theory find the geometry, hybridization of the respective complex (149-152)

Finding out the IUPAC name, coordination number, oxidation state, d electronic configuration hybridization of complex (Nomenclature of coordination compounds) (138, 139, 140, 141)

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Two marks Book Back

- 1. Give any three characteristics of ionic crystals
- 2. Define unit cell.
- 3. What is meant by the term "coordination number"? What is the coordination number of atoms in a bcc structure?
- 4.Primitive an non primitive unit cell

Book inside

- 1. Define isotropy and anisotropy
- 2. Explain about impurity defect
- 3.Calculate the number of atom is FCC, BCC, SC (183-184)
- 4. Write a note on Bragg equation (184)

<u>Long answers</u> Book Back

- 1. Differentiate crystalline solids and amorphous solids
- 2. Distinguish between hexagonal close packing and cubic close packing
- 3. Distinguish tetrahedral and octahedral voids.
- 4. Explain Schottky defect
- 5. Write short note on metal excess and metal deficiency defect with an example
- 6. Calculate the percentage efficiency of packing in case of body centered cubic crystal

STUDY MATERIAL

- 7. Write a note on Frenkel defect.
- 8.Defin radius ratio (192)

Book inside

- 1. Determine packing efficiency simple cubic unit cell
- 2. Determine packing efficiency Face centered cubic unit cell or cubic closed packing
- 3.Clssification of crystalline solids (can be asked in three marks or five marks)
- 4.Types of point defect (193)

Different types of cubic arrangement

See all density based problems

Unit – 7 CHEMICAL KINETICS

Two marks Book Back

- 1. Define average rate and instantaneous rate.
- 2. Define rate law and rate constant.
- 3. Write Arrhenius equation and explains the terms involved.
- 4.Examples of first order and zero order

Book inside

1. Define activation energy 2. Why doctors usually prescribe drugs to be taken at different times (225)

Long answers

Book Back

- 1.Derive integrated rate law for a zero order reaction A
- → product
- 2. What is an elementary reaction? Give the differences between order and molecularity of a reaction.
- 3.Describe the graphical representation of first order reaction and its half life derivation
- 4.Explain the effect of catalyst on reaction rate with an example.
- 5.Explain briefly the collision theory of bimolecular reactions.6.Explain pseudo first order reaction with an example.

Book inside

- 1. Differences between rate and rate constant of a reaction
- 2.How can you calculate activation energy when rate constant for a reaction at two different temperatures is known (221 222)
- 3.Factors affecting reaction rate

Study all the effects on reaction rate and problems based on finding whether it is first order or note

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Unit – 8 IONIC EQUILIBRIUM

Short answers

- 1. Define solubility product and its use (25)
- 2. What is common ion effect? Give example
- 3. What are the Limitations of Arrhenius concept
- 4. Why ionic product of water increases with increases in temperature
- 5. Derive the relation between pH and pOH.
- 6. Define buffer capacity & index
- 7.The salt of strong acid and strong base does not undergoes hydrolysis
 .Explain
- 8. What do meant by ionic product of water?

Long answers

- 1.Derive Oswald's dilution
- 2.Discuss the Lowery –
 Bronsted concept of acids and bases
- 3. Derive an expression for the hydrolysis constant and degree of hydrolysis of salt of strong acid and weak base
- 4. Explain the buffer action of acidic buffer with an example
- 5. Explain the buffer action of basic buffer with an example
- 6. Derive Henderson equation
- 7. Derive an expression for the hydrolysis constant and

STUDY MATERIAL

degree of hydrolysis of salt of strong base and weak acid 8. Derive an expression for the hydrolysis constant and degree of hydrolysis of salt of weak base and weak acid 9. Arrhenius concept and lewis concept of acid and bases

10.Differnce between lewis acid and lewis base

Problems based on Ostwald , Henderson , pH , dissociation constant , degree of hydrolysis of salt

Unit – 9

ELECROCHEMISTRY

Short answers

- **1.** Define equivalent conductance
- 2. What is molar conductance? Give its unit.
- 3. State Kohlraush's law.
- 4. State Faraday's law of electrolysis
- 5. Define-electro chemical equivalent
- 6. What is equivalent conductance? Give its unit
- 7. What is cell constant? Give its unit
- 8. Why does conductivity of a solution decrease on dilution of the solution
- 9. Derive the relationship between Gibb's free energy change and the cell potential 10.Debye -Huckel and Onsager equation
- 11. Relation between ΔG , K, E

- 12. What is intercalation (59)
- 13. What is electrochemical series?

Long answers

- 1. Derive Henderson equation
- 2. Explain the function of H₂
- O₂ fuel cell.
- 3. Explain Factors affecting electrolytic conductance
- 4. State and explain the Kohlraush's law
- 5. Derive an expression for Nernst equation
- 6. How is e. m. f of a half cell determined? Or Explain about Standard hydrogen electrode(SHE) and how it is used to find the unknown electrode potential 7. Glavanic cell notation (46)
- 8. Write about
 Electrochemical mechanism
 of corrosion or rusting
 9. How will you protect
 metals from corrosion?

Study all Cells and batteries - Cathode and anode reaction Problems based on Kohlraush law, Nernst equation

Unit – 10 SURFACE CHEMISTRY

Short answers

- 1. What are active centers?
- 2. What are promoters? Give example
- 3. What is catalytic poison? Give example

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- 4. What is Tyndall's effect?
- 5. What is electrophoresis?
- 6. What is emulsion? What are emulsifying agents?
- 7. Explain the following with examples. (i).Positive catalysis ii) negative catalysis iii) Autocatalysis
- 8. How is delta formed?
- 9. What is tanning?
- 10.Difference between lyophilic and lyophobic colloids
- 11. What is meant by Helmholtz double layer?
- 12. What is the difference between a sol and a gel?
- 13.Define gold number
- 14.Explain the

homogeneous and

Heterogeneous catalysis with example.

- 15. Applications of adsorptions and colloids (can be asked in one marks or two marks)
- 16.Phase transfer catalysis and nano catalysis
- 17.Brownian movement and its importance
- 18.How will you differentiate natural honey from artificial honey
- 19.Peptising agent is added to convert precipitate into colloidal solution . Illustrate
- with example
- 20.Role of adsorption in heterogenous catalysis
- 21.Define emulsification and deemulsification?

STUDY MATERIAL

Long answers

- 1. Write briefly the adsorption theory of heterogeneous catalysis and its limitations
- 2. Explain intermediate compound theory of homogeneous catalysis
- 3. Write briefly about the preparation of colloids by chemical methods or condensation methods
- 4. Write the general characteristics of catalytic reactions and enzyme catalysed reaction
- 5. What is electro osmosis? Explain (or) How can you determine the charge of dispersed medium in colloidal solution.
- 6. What is electrophoresis? Explain. (or) How can you determine the charge of sol particle (dispersed phase) in colloidal solution
- 7. How can colloidal solution be purified by dialysis and electrodialysis?
- 8. Give the differences between physical adsorption and chemical adsorption
- 9. How are colloids prepared by using (i) mechanical dispersion method, (ii) electro dispersion method?
- 10. What is adsorption isotherm? Explain about Freundlich adsorption isotherm and its limitations
- 11. Discuss the factors affecting adsorption
- 12. How will you identify the types of emulsion

13. Various method of coagulation14. Various deemulsification techniques15. Characteristics of adsorption

Unit – 11 HYDROXY COMPOUNDS AND ETHERS

Short answers

- 1. How phenolphthalein is prepared?
- 2. How ethylene glycol is converted into dioxan?
- 3. Give tests for phenol
- 4. Explain Dow's process?
- 5. How will you prepare ethylene glycol from ethylene?
- 6. How will you convert ethyl alcohol in to diethyl ether?
- 7. How will you convert 2-methyl 2-propanol into 2-methyl propene?
- 8. Give a brief account on coupling reaction of phenol with benzene diazonium chloride
- 9. How phenol is identified by dye test? Give equation 10. How is acrolein formed?
- (OR) What happens when
- glycerol react KHSO₄?
- 11. How is nitro glycerin prepared from Glycerol
- 12. Starting from phenol how would you obtain picric acid?
- 13. How is tertiary butyl alcohol converted to isobutylene

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- 14. How are 1-propanol and 2-propanal distinguished by oxidation method
- 15. How will you prepare glycerol or saponification reaction
- 16. How will you prepare nitroglycerine from glycerol (or) nitration reaction of glycerol
- 17. Schotten-Baumann reaction, Riemer Tiemann Reaction

18.Is it possible to oxidize tbutyl alcohol using acidified potassium dichromate to form a carbonyl compounds

Long answers

- 1. Give any two methods of preparation of anisole.
- 2. How does diethyl ether react with the following reagents? (i) O₂/long contact (ii) dil. H₂SO₄ (iii) PCl₅
- 3. Give any three methods of preparing diethyl ether.
- 4. Distinguish aliphatic ether (diethyl ether) and aromatic ether (anisole).
- 5. How does diethyl ether react with PCl₅, one equivalent of HI and excess of HI.
- 6. Write the mechanism of acid catalysed dehydration of ethanol to give ethene
- 7. Explain Kolbe's reaction
- 8. Explain Swern oxidation
- 9. How will you differentiate primary, secondary and tertiary alcohols by Victor's meyer test

STUDY MATERIAL

10. How will you differentiate primary, secondary and tertiary alcohols by Lucas test 11.Describe Saytzeff's rule

See all the naming reaction , Study the preparation , chemical properties of phenol , Glycerol . ethylene glycol See all the uses

Unit – 12 - CARBONYL COMPOUNDS

Short answers

- 1. What is Urotropine? Give its use (Or) How does formaldehyde react with ammonia?
- 2. What is Rosenmund's reduction?
- 3. Give the IUPAC name for the following. (a) crotanaldehyde
- (b) methyl n-propyl ketone
- (c) phenyl acetaldehyde
- 4. Give the tests for aldehydes
- 5. Write briefly on clemmensen reduction
- 6. What happens when benzaldehyde heated with NaOH
- 7. Explain the halo form reaction?
- 8. How is acetophenone prepared by Friedel -Craft's reaction?
- 9. State Popott's rule
- 10. How is benzophenone prepared by Friedel Craft's reaction

Carboxylic acid

- 11. Write a note on HVZ reaction.
- 12. What is trans esterification
- 13. Account for reducing nature of formic acid.
- 14. Write two tests to identify carboxylic acid.
- 15. Mention the uses of benzoic acid.
- 16. Compare the strength of mono,di and trichloro acetic acid.
- 17. Mention the uses of formic acid.
- 18. Prove that amide shows Amphoteric character

Long answers

- 1. Explain the mechanism of aldol condensation of acetaldehyde
- 2. Explain the mechanism of Cannizzaro reaction.
- 3. Write notes on Stephen's reaction & Perkin's reaction
- 4. Write notes on Clemmenson's reduction and **Knoevenagal** reaction
- 5. Write a note on Benzion reaction
- 6. Illustrate the reducing properties of acetaldehyde with examples
- 7. Write the difference between acetaldehyde and acetone
- 8. Write the difference between acetaldehyde and benzaldehyde

Carboxylic acids

SAIVEERA ACADEMY1. Account for the reducing

- nature of Formic acid
 2. Explain (i) Kolbe's
 electrolytic reaction and (ii)
 trans esterification
- 3. How benzoic acid reacts with (i) Conc. HNO₃/Conc. H₂SO₄ (ii) Cl₂/FeCl₃ (iii) PCl₅

reaction.

4. Explain the reactions of CH₃CONH₂ with (i) P₂O₅ (ii) Br₂/NaOH and (iii) Hydrolysis by an acid.

Chemical properties, preparation of Benzaldehyde, benzoic acid, acetamide

Unit-13 ORGANIC NITROGEN COMPOUNDS

Short answers

All naming reaction

- 1. Schotten Baumann reaction
- 2. Hoffmann's hypobromite (or) bromamide reaction.
- 3. Gabrialphthaimide synthesis.
- 4. Carbylamines reaction.
- 5. Coupling reactions
- 6. Mustard oil reaction.
- 7. Formation of Schiff's base.
- 8. Diazotization.
- 9. Gattermann's reaction.
- 10. Sand Meyer's reaction
- 11. Gomberg's reaction
- 12. How will you convert acetamide to methyl amine? Give equation

STUDY MATERIAL

- 13. Baltz schiemann reaction
- 14. Thrope nitrile condensation
- 15. Levine and hauser" acetylation OR cyanomethylation reaction.
- 16. How will you prepare chloropicrin?
- 17. What is Libermann's nitroso test

Long answers

- 1. Distinguish between primary, secondary and tertiary amines
- 2. Write a note on the reduction nitrobenzene under different conditions.
- 3. How does nitrous acid react with primary, secondary, and tertiary amines
- 4. Write a note on following conversion. i) chlorobenzene
- -> aniline ii) Aniline -> Schiff's base iii) Benzene diazonium chloride -> biphenyl
- 5. How are the following conversions carried out? (i) Nitrobenzene to phenyl hydroxylamine (ii) Aniline to phenyl isocyanide (iii) Benzene diazonium chloride to biphenyl.
- 6. How are the following conversions carried out? (i) Nitroethane to Methyl amine (ii) Methyl amine to Methyl isocyanide (iii) Benzene diazonium chloride to Biphenyl.

7. How are (i) phenol, (ii) Chlorobenzene, (iii) Biphenyl prepared - by using benzene diazonium chloride?

Chemical properties, preparation, uses of aniline, benzene diazonium chloride

Unit – 14 BIOMOLECULES

Short answers

- 1. Give the differences between primary and secondary structure of proteins
- 2. Give any three difference between DNA and RNA
- 3. Give two difference between Hormones and vitamins
- 4. Write a note on denaturation of proteins
- 5. Define an iso electric point
- 6. What is Zwitter ion? Give its structure
- 7. Name the four bases present in DNA. Which one of these not present in RNA?
- 8.Biological function of nucleic acids
- 9. What is hormones and their types

Long answers

- 1. Elucidate the structure of fructose (Study all the reaction which can be asked in exam)
- 2. Prove the structure of glucose(Study all the

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reaction which can be asked in exam)

- 3. How are carbohydrates classified?
- 4. What is a peptide bond? Illustrate the formation of a peptide bond in glycyl alanine.
- 5. Give the biological important of Lipids
- 6. Explain about the structure of proteins.
- 7. What are the biological importance of proteins?
- 8. Distinguish between glucose and fructose.
- 9.Classification of vitamins and their deficincy diseases
- 10. Types of RNA molecules
- 11. What are enzymes . Explain the mechanism of enzyme action

Vitamins deficiency diseases, function, structure of (cellulose, starch, sucrose, lactose, maltose and their preparation) purine, pyrimidine bases

Unit – 15 CHEMISTRY IN EVERYDAY LIFE

Short answers

- 1. What are anaesthetics? What are the types Give one example
- 2. In what way antipyretics are important. Give an example
- 3. What are antibiotics? Give an example
- 4. In what way antacids are important?

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- 5. What are artificial sweetening agents? Give two examples.
- 6. Write a note on Buna-S rubber.
- 7. How is nylon-66 prepared? Give its uses
- 8. What are anti-oxidants? Give two examples
- 9. What is a food preservative? Give an example
- 10. What are anti fertility drugs? Give examples.
- 11. What are bio degradable polymers? Give examples.
- 12. How will you prepare PHBV? Give its uses
- 13. Define TFM.
- 14. What are sugar substituents
- 15. Types of polymerisation

Long answers

- 1. How do antiseptics differ from disinfectants?
- 2. Explain the mechanism of cleansing action of soaps and detergents
- 3. How is terylene prepared
- 4. Explain the preparation of bakelite and give its use.
- 5. Explain how Free radical polymerisation occurs?
- 6.Drug target interaction
- 7.Different class of drugs and their use (277 -282)
- 8. Preparation, use of PAN,

Nylon 6, 6, Nylon 6,

BUNa - N, BUNa - S,

Nylon 2 - Nylon 6,

Melamine, PHBV

9.Explian about vulcanization of rubber

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STUDY MATERIAL

