# **GUESS PAPER 2025**

# CHEMISTRY - 12th

سیکنڈ ایئر ایئر

FSC (PRE MEDICAL / PRE ENGINEERING)

پنجاب کے تمام بورڈز ( لاہور، ملتان، گوجرانواله، سرگودها،ڈیرہ غازی خاں، فیصل آباد ،ساہیوال) کے نوٹس، گیس پیپرز، چیپٹر وائز ٹیسٹ، ہاف بُک ٹیسٹ کے لیے ہماری ویب سائٹ 4 0300 کیا۔
ہاف بُک ٹیسٹ، فُل بُک ٹیسٹ کے لیے ہماری ویب سائٹ 4 0300 کیا۔
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2<sup>ND</sup> year CHEMISTRY guess paper

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# 2<sup>nd</sup> YEAR CHEMISTRY

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#### **UNIT #1**

# **Important Short Questions**

- 1. Justify that ZnO is amphoteric in nature.
- 2. Although both sodium and potassium present in the same periodic table? Yet their oxides are different in nature, Na<sub>2</sub>O is basic while P<sub>2</sub>O<sub>5</sub> is acidic in character?
- 3. Why the ionic radii of negative ions are larger than the size of their parent atom?
- 4. What is electron affinity? Why is the second value of electron affinity usually shown with a positive sign?
- 5. What is electron affinity. Give its periodic trend?
- 6. Why metallic character increases from top to bottom in a group of metals?
- 7. Why the oxidation state of noble gases is zero?
- 8. Why diamond is a non conductor while graphite is a fairly good conductor?
- 9. Write similarities of hydrogen with alkali metals?
- 10. Zn, Cd and Hg were placed in alkaline earth metals in Mendeleev's periodic table?
- 11. Negative ion is always bigger in size than its parent atom why?
- 12. Why melting and boiling points of elements belonging to VA- VIIA are lower?
- 13. Write two similarities and two dissimilarities of hydrogen with IV-A group elements?
- 14. Write two similarities and two dissimilarities of hydrogen with halogens?
- 15. Why metals are good conductors?
- 16. Why the size of anion is always greater than its parent atom?
- 17. Give differences of lithium from its own family members?
- 18. Define hydration energy. The hydration energies of the ions are in following order. Justify. Al<sup>+3</sup>>  $Mg^{+2}$ >  $Na^{+}$ ?
- 19. Why oxidation number of noble gases is usually zero?

# **IMPORTANT LONG QUESTIONS**

- 1. Justify the position of hydrogen at the top of IA, IVA and VIIA in the periodic table?
- 2. Define ionization energy. Discuss its trend in groups and periods?
- 3. Define hydrides. Give their classification and properties?
- 4. State Mendeleev's periodic law. What are the improvements made in Mendeleev's periodic table?
- 5. Give trends of metallic character in groups and periods and discuss the impact of atomic size on it?

#### **Unit #2**

- 1. What is the role of KO<sub>2</sub> in breathing equipment? /what is the significance of KO<sub>2</sub> for mountaineers?
- 2. Why the aqueous solution of Na<sub>2</sub>CO<sub>3</sub> is alkaline in nature?
- 3. Why lime water turns milky with CO<sub>2</sub> but clear with excess CO<sub>2</sub>?
- 4. BeO is amphoteric oxide. Show with two suitable reactions?
- 5. How gypsum is converted into plaster of paris?
- 6. Why 2% gypsum is added in cement?
- 7. Why lime is added into acidic soil?
- 8. How lime mortar is prepared? Explain with chemical equations?
- 9. What is milk of magnesia and for which treatment is it used?
- 10. What are the advantages of down's cell for the preparation of sodium on commercial scale? NTS Academy
- 11. Why Down's cell preferable method for the preparation of sodium on large scale?
- 12. What are the main uses of plaster of paris?

- 13. Give two similar properties of lithium and magnesium?
- 14. What are two major problems faced during the working of diaphragm cell?
- 15. What reactions occur when (a)Lithium carbonate is heated (b) Sodium bicarbonate is heated (c) Lithium hydride is treated with water?
- 16. Write formulas of (a) beryl (b) asbestos (c) chrysoberyl (d) Calcite (e) barite (f) dolomite

# IMPORTANT LONG QUESTIONS

- 1. Explain the preparation of sodium metal by Down's cell?
- 2. Write a short note on the role of gypsum in agriculture?
- 3. Write the commercial method for the preparation of NaOH?
- 4. Discuss the preparation of sodium hydroxide on commercial scale diaphragm or Nelson's cell?
- 5. Explain peculiar behaviour of Beryllium?
- 6. Write four points of differences between beryllium and its group?
- 7. Discuss the peculiar behaviour of Lithium with respect to the other members of alkali metals?

#### **Unit #3**

# **Important Short Questions**

- 1. What is tincal. How would you prove that its aqueous solution is alkaline in nature?
- 2. What are silicones? Why are silicones preferred over ordinary organic lubricant?
- 3. Why CO<sub>2</sub> is a gas at room temperature while SiO<sub>2</sub> is a solid? /explain the structure of CO<sub>2</sub>?
- 4. What is chemical garden?
- 5. Write uses of borax and boric acid?
- 6. What is the chemistry of borax bead test?
- 7. How will you convert boric acid into borax and vice versa?
- 8. Write four uses of sodium silicate?
- 9. Write the reactions of boric acid with (a) ethyl alcohol (b) NaOH?
- 10. In what respects carbon behave differently from other members of group IV-A?
- 11. Give two similarities b/w carbon and silicon silicate?
- 12. Why aqueous solution of Borax is alkaline in nature?
- 13. Give the formulas of four boric acids with name?
- 14. How aluminium reacts with aqueous sodium hydroxide?
- 15. How is borax used as water softening agent?
- 16. Why are borate glazes preferred over silicate glazes?
- 17. What is vitreous silica?
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- 18. Why are liquid silicones preferred over ordinary organic lubricants?
- 19. Give the names and the formulas of different acids of boron?

# This year there will be no long from this chapter.

#### **Unit #4**

- 1. Why does aqua regia gold and platinum?
- 2. Write down the dissimilarities between oxygen and sulphur?
- 3. Why is SO<sub>3</sub> dissolved in H<sub>2</sub>SO<sub>4</sub> dissolved in water?
- 4. Describe "ring test" for the confirmation of nitrate ions in solution?
- 5. Write down the reaction between conc. H<sub>2</sub>SO<sub>4</sub> act as dehydrating agent by writing two equations?
- 6. NO<sub>2</sub> is a strong oxidizing agent. Prove the truth of this statement giving example?
- 7.  $P_2O_5$  is a powerful dehydrating agent. Prove with example?
- 8. How does  $P_2O_5$  react with water in cold and hot state?
- 9. How does HNO<sub>3</sub> react with (a) Cu (b) Mn
- 10. How does NO<sub>2</sub> react with KI and H<sub>2</sub>S?

- 11. Write four uses of HNO<sub>3</sub>?
- 12. How does nitrogen differ from other elements of its group?
- 13. How NO<sub>2</sub> is prepared from: (a) lead nitrate (b) Cu + HNO<sub>3</sub>?
- 14. Write any two methods for preparation of nitrogen oxide?
- 15. Write any four properties of sulphuric acid? NTS academy
- 16. Nitrous is a reducing as well as oxidizing agent. Justify giving chemical reaction?
- 17. Discuss different allotropic forms of oxygen?

# This year there will be no long from this chapter.

# **Unit #5**

# **Important Short Questions**

- 1. Give important uses of Helium?
- 2. What is iodized salt? Nts academy
- 3. What are Freons and Teflon? Give their uses?
- 4. Why iodine have metallic luster?
- 5. How are halogens acid ionized in water?
- 6. Halogens are strong oxidizing agents. Justify?
- 7. Why fluorine show peculiar behaviour? Give four reasons?
- 8. Why HF is a weak acid than any other halogen acids?
- 9. Write four properties of hydrogen fluoride?
- 10. Write any four applications of noble gases?
- 11. What is halothane give its formula?
- 12. How XeF<sub>2</sub> and XeF<sub>4</sub> can be prepared?
- 13. Oxidizing power of halogen depends on which factors?
- 14. Give reaction of chlorine with cold and hot NaOH?
- 15. What is bleaching powder? How bleaching powder is prepared by Hasenclever's method?
- 16. Write four uses of bleaching powder?

# IMORTANT LONG QUESTIONS

- 1. Discuss peculiar behaviour of fluorine?
- 2. How bleaching powder is prepared? Give its uses?
- 3. What happens when bleaching powder reacts with: dil. & conc. H<sub>2</sub>SO<sub>4</sub> , HCL, NH<sub>3</sub>,H<sub>2</sub>O.
- 4. Discuss relative reactivities of halogens as oxidizing agent. Also describe commercial uses of halogens and their compounds?
  - 5. Write chemical reaction of fluorides of Xenon?

#### **Unit #6**

- 1. Why d and f block elements are called transition elements?
- 2. Why Transition elements compounds are coloured and variable oxidation state?
- 3. Differentiate b/w typical and nontypical transition elements?
- 4. How galvanizing helps protecting iron from rusting?
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- 5. What is chromyl chloride test?
- 6. How chromate ions are converted into dichromate ions?
- 7. What are chelates? What are chelates found in transition metal complexes?
- 8. What is ligand? Give types of ligands?
- 9. Define coordination number? give example?
- 10. What is coordination sphere?
- 11. What is sacrificial corrosion?
- 12. Write the uses of  $K_2Cr_2O_7$ ?
- 13. What are interstitial compounds?
- 14. How entrapped bubbles of gases are removed from steel?
- 15. Define paramagnetic and diamagnetic substances?

16. Why does damaged tin plated iron get rusted quickly?

This year there will be no long question from this chapter.

#### Unit #7

#### **Important Short Questions**

- 1. What is vital force theory and why vital force theory was rejected?
- 2. What is catalytic cracking?
- 3. What is octane number and how it is improved?
- 4. What is destructive distillation?
- 5. What is natural gas. Write its two uses?
- 6. What are heterocyclic compounds?
- 7. Define aromatic compounds also give an example?
- 8. what are alicyclic compounds give an example?
- 9. Define functional group. Give two examples containing oxygen?
- 10. Define isomerism. Also write examples?
- 11. Define metamerism with example?
- 12. What is zwitter ion? How is it formed? write down its structural formula?
- 13. Define Cis- trans isomerism also give example?
- 14. Define geometrical isomerism. Give one example?
- 15. Define tautomerism by giving examples?
- 16. Why there is a free rotation around a single bond, but no free rotation around a double bond? For more notes, search NTS Academy on Google.

# IMPORTANT LONG QUESTIONS

- 1. Explain reforming of petroleum with the help of suitable examples?
- 2. Define cracking and explain its type with example?
- 3. Define hybridization. Explain the structure of ethene and ethyne on its basis?
- 4. Define isomerism. Explain geometrical isomerism with example?
- 5. How organic compounds are classified. Give suitable example of each?

#### **Unit #8**

- 1. Why alkanes are less reactive than alkenes?
- 2. What are clemmenson and wolf kishner reduction reactions. How they differ?
- 3. Ethane can be converted into ethyl alcohol write equation?
- 4. What is Raney-nickel how it is used?
- 5. What is Baeyer's test? / how Baeyer's test is used to detect unsaturation of organic compounds? Nts academy.
- 6. Define Markownikov's rule and give one example?
- 7. Give mechanism of  $O_3$  ozonolysis of ethane?
- 8. Prepare cis and trans alkenes from alkyne along with chemical equation?
- 9. How is ethyne is converted into ethanol?
- 10. Convert CH triple bond CH into oxalic acid?
- 11. How ethyne is converted to (a) acetaldehyde (b) benzene
- 12. Convert methane into (a) formaldehyde (b) nitro methane
- 13. Synthesize (a) benzene (b) oxalic acid from ethyne
- 14. Define polymerization. How can we convert ethene into polythene?
- 15. How would you convert 2-butyne into cis and trans 2- butene?
- 16. How does alkane show un reactivity?
- 17. Why pi bond is more reactive than sigma bond?
- 18. What is hydrogenolysis?
- 19. How do you distinguish between ethene and ethyne?
- 20. Convert methane into formic acid?
- 21. Convert ethyne into acetaldehyde?
- 22. Covert 1-butene to 1- butyne?
- 23. Give four uses of methane?

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# IMPORTANT LONG QUESTIONS

- 1. Describe any four methods for the preparation of alkenes?
- 2. Prepare alkenes from kolbe's electrolytic method? write down its mechanism?
- 3. Describe with example the acidic nature of alkynes?
- 4. Give comparison of reactivity of alkanes, alkenes and alkynes?
- 5. State Markownikov's rule? Give reactions of HBr with (a) propene (b)2-butene (c) 1- butene?

#### **Unit #9**

# **Important Short Question**

- 1. Discuss the objections to the Kekulé's model of benzene. / what arguments were given by Kekule to confirm the regular hexagonal structure of benzene?
- 2. Write down the resonance structure of benzene.
- 3. Define resonance energy. NTS ACADEMY
- 4. What is the Wurtz fitting reaction? Give an example?
- 5. Give the mechanism Nitration and halogenation of benzene?
- 6. Explain the sulphonation of benzene with the mechanism of reaction.
- 7. What happens when ozone is reacted with benzene?
- 8. Prepare m-chloronitrobenzene from benzene in two steps?
- 9. Benzene can be prepared commercially from acetylene. Give reaction with conditions?
- 10. How is benzene converted into maleic acid by catalytic oxidation?
- 11. Draw the structure of (a) naphthalene, (b) anthracene
- 12. What are polycyclic aromatic hydrocarbons?
- 13. Discuss the x-ray structure of benzene.
- 14. How can we prepare benzene from (a) n- n-hexane (b) benzene sulphonic acid.
- 15. Write the general mechanism for the electrophilic substitution reaction of benzene.
- 16. What happens when chlorine is passed through benzene in sunlight?
- 17. Write any four para directing group?

# **IMPORTANT LONG QUESTIONS**

- 1. Explain the structure of benzene on the basis of atomic orbital treatment?
- 2. Write down four methods of preparation of benzene?
- 3. What are Friedal- Craft reactions? Explain mechanism of alkylation and acylation of benzene?
- 4. Detail out two reactions in which benzene behave as saturated hydrocarbon and two reactions if behave as unsaturated?
- 5. Write down mechanisms of following reactions (a) nitration of benzene (b) sulphonation

# **Unit # 10**

- 1. What are primary and tertiary alkyl halides? Give one example each?
- 2. Convert ethyl bromide into (a) n- butane (b)ethene (c) ethyl alcohol (d) propene
- 3. What is Wurtz reaction. Give its importance? پنجاب کے نمام بورڈز کے 2/11/10/9 کے گیس پیپرز کے لیے ہماری ویب سائٹ www.ntsacademy.com وزٹ کریں۔
- 4. Give two examples of nucleophilic substitution reaction?
- 5. What is  $\beta$  elimination reaction?
- 6. How is tetraethyl tetramethyl lead is prepared?
- 7. How would you prepare alkyl halide from alcohol and thionyl chloride?
- 8. What are elimination reactions. Give examples of E1 and E2 reaction?
- 9. Write the mechanism of SN1 reaction?
- 10. What are electrophile and nucleophile?
- 11. Justify given order of reactivity on the basis of bond energy R I> R Br>R Cl>R F?

- 12. Give methods to prepare alkyl halides from alcohols?
- 13. What is Grignard reagent?
- 14. Convert ethyl alcohol into their respective halides by using PCl<sub>3</sub> and PCl<sub>5</sub>?
- 15. Starting from C<sub>2</sub>H<sub>4</sub>Br how will you prepare ethene and ethene?
- 16. How do we get alkyl nitriles from Grignard reagents?

#### **IMPORTANT LONG QUESTIONS**

- 1. What is  $\beta$  elimination reaction? Difference between E1 and E2 reaction?
  - 2. What are SN reactions? Differentiate between SN1 and SN2 reaction?
  - 3. What is Grignard reagent? How these react with carbonyl compounds?
    - 4. How does ethyl magnesium bromide react with (a) CO<sub>2</sub> (b)CH<sub>3</sub>COCH<sub>3</sub>
  - 5. Explain nucleophilic substitution unimolecular reaction (SN1) with example?
    - 6. Discuss SN2 reactions of alkyl halide in detail?

## **Unit # 11**

# **Important Short Question**

- 1. What do you mean by denaturing of alcohols?
- 2. Give structural formula of : (a) Lactic acid (b) Tartaric acid (c) Picric acid (d) Phydroxy benzyl alcohol (f) carbolic acid?
- 3. Absolute alcohol can not be prepared from fermentation process why?
- 4. Explain Williamson synthesis for the preparation of ethers?
- 5. Define fermentation? What are essential conditions for fermentation process?
- 6. Ethyl alcohol is a liquid while methyl chloride is a gas, why?
- 7. How phenol is prepared by Dow's method?
- 8. Give two methods for the preparation of phenol?
- 9. Prepare Bakelite from phenol?
- 10. Give the reactions of phenol with conc. H<sub>2</sub>SO<sub>4</sub> and acetyl chloride?
- 11. How does picric synthesis take place?
- 12. Ethanol gives different products with conc. H<sub>2</sub>SO<sub>4</sub> under different conditions. Justify?
- 13. What is Lucast test?
- 14. How can we distinguish between methanol and ethanol?
- 15. Convert methanol into ethanol and acetone into ethyl alcohol?
- 16. How chloro benzene is converted into phenol?
- 17. Give reactions of alcohol in which C O bond break?
- 18. Why water has higher boiling point than ethanol?
- 19. what is wood- spirit? How is it prepared from water gas?
- 20. What are rectified spirit, absolute alcohol and commercial alcohol?
- 21. Define fermentation? Give its

#### IMPORTANT LONG QUESTIONS

- 1. Describe the industrial method of preparation of methanol with diagram?
- 2. Give the reactions of phenol with the following: Zn, NaOH, bromine water,  $HNO_3,\,H_2SO_4,\,CH_3COCl$
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- 3. Convert: (a) Ethanol into methane (b) Methanal into ethanal
- 4. What is fermentation? How ethanal is prepared from molasses and starch?
- 5. How ethyl alcohol is obtained by the fermentation of molasses and starch?
- 6. Give two methods for the preparation of phenol?

## **Unit #12**

- 1. What is cannizzaro's reactions? Write one example?
- 2. What is silver mirror / Tollen's test?
- 3. What is Fehling's solution test of aldehyde test?
- 4. Write four uses of formaldehyde?
- 5. Write four uses of acetaldehyde?

- 6. What is idoform test? Give its uses? / how idoform is prepared from acetaldehyde and ethyl alcohol?
- 7. Write the mechanism of the reaction of HCN with carbonyl compounds?
- 8. What is formalin?
- 9. Prepare acetone from calcium acetate?
- 10. Give industrial preparation of formaldehyde?
- 11. What is Haloform reaction? Give its uses?
- 12. How acetaldehyde is converted into lactic acid?
- 13. How the aldehydic group can be prevented against oxidising agents?
- 14. How acetaldehyde reacts with ethyl alcohol?
- 15. How Aldehydes can be distinguished by Benedict's solution test?

## **IMPORTANT LONG QUESTIONS**

- 1. Write a note on cannizzarro's reaction?
- 2. What type of aldehydes give cannizzarro's reaction/ give its mechanism?
- 3. What is Aldol condensation? Give mechanism?
- 4. Write four tests by which aldehyde can be distinguished from ketones?
- 5. How 2,4 dinitrophenyl hydrazones are prepared?
- 6. Write mechanism of ammonia derivatives carbonyl compound in general?
- 7. Describe the mechanism of the reaction of sodium bisulphite with acetone?

## **Unit #13**

# **Important Short Questions**

- 1. What are essential and nonessential amino acids?
- 2. What is zwitter ion and how they are produced? Write its structural formula?
- 3. Explain acidic and basic behaviour of amino acids?
- 4. How acetic anhydride is prepared from acetic acid?
- 5. What are amino acids? Give two example?
- 6. Define neutral amino acids also give example?
- 7. Write formula of glycine, alanine, melonic acid and phthalic acid?
- 8. Write down the mechanism of ester formation?
- 9. How would you convert CH<sub>3</sub>COOH to CH<sub>3</sub>CONH<sub>2</sub>?
- 10. How amino acid is synthesized. Give example?
- 11. What is peptide bond? Write formula of a dipeptide?
- 12. How would you prepare carboxylic acid from Grignard reagent?
- 13. What are acid anhydride? How can we prepare acetic anhydride?
- 14. Write important uses of acetic acid?15. How carboxylic acids are prepared by oxidative cleavage of alkenes?

#### IMPORTANT LONG OUESTIONS

- 1. Write down any four methods of the preparation of acetic acid with reactions?
- 2. Define zwitter ion. Discuss effect of acidic and basic medium on the dipoler ion structure of amino acid?
- 3. Convert acetic acid into (a) Methane (b) Acetyl chloride
- 4. Write a short note on acidic and basic character of amino acids?
- 5. Write down the reactions of acetic acid with: Na<sub>2</sub>CO<sub>3</sub>, PCl<sub>5</sub>, C<sub>2</sub>H<sub>5</sub>OH, NH<sub>3</sub>, SOCl<sub>2</sub>, HI/P

#### **Unit # 14**

- 1. What is meant by rancidity of fats and oil. Why it occurs?
- 2. Write any two differences b/w DNA and RNA?
- 3. In what way oil, fats are different?
- 4. What is condensation polymerization? Give an example?
- 5. How proteins are denatured?
- 6. Write down the importance of proteins?
- 7. Write four uses of lipids?

- 8. Give two differences b/w fats and oil?
- 9. Define saponification number and iodine number?
- 10. What are thermosetting polymers. Give two examples?
- 11. What is meant by hardening of oils and fats? / how oils are converted into fats?
- 12. What is saponification number?
- 13. How PVC is prepared. Also give its uses?
- 14. What is chemical nature of enzymes. Classify them?
- 15. Write down the mechanism of addition polymerization?

This year, there will be no long from this chapter.

# **Unit #15**

#### **Important Short Questions**

- 1. What are fertilizers? Why are they needed?
- 2. What are micronutrients?
- 3. What are macro nutrients? Name any three?
- 4. Write any four points of essential qualities of a good fertilizer?
- 5. Give the important properties of fertilizers?
- 6. Why ammonium nitrate is not added to the crop of paddy rice?
- 7. What are phosphatic fertilizers? What is their role in plants growth?
- 8. Give two formulas of phosphatic fertilizer?
- 9. What are potassium fertilizer? Write its importance?
- 10. What is cement. Which raw materials are used for its preparation?
- 11. What do you mean by setting of cement. Write down the reactions taking place in first 24 hours?
- 12. Define paper?
- 13. Write any four non woody raw materials for the production of paper and pulp?
- 14. How bleaching of pulp is done in Pakistan?
- 15. What is cement? Write down the raw materials used for the manufacturing of cement?
- 16. What is clinker?
- 17. Why cement is called portland cement?
- 18. What is the role of nitrogenous fertilizers for the growth of plant?

#### **IMPORTANT LONG QUESTIONS**

- 1. What are fertilization. Discuss the classification of fertilizers and its uses?
- 2. Nitrogenous fertilizers is an important class of fertilizers for crop. Discuss?
- 3. How urea is manufactured in the industry? Support your answer with chemical equation?
- 4. Describe the manufacturing process of cement?

#### **Unit # 16**

- 1. What are leachates?
- 2. How detergants are threat to aquatic life?
- 3. What is acid rain. How it effects the environment?
- 4. Explain the BOD? / what is biological oxygen demand?
- 5. What is acid rain?
- 6. How chlorofloro- carbons destroy the ozone layer?
- 7. Discuss detergents as water pollutant?
- 8. Write down the effects on human health of CO?
- 9. What do you know about water pollution? how is water polluted by industrial effluents?
- 10. Name four components of environment?
- 11. What are primary and secondary pollutants. Give one example of each?
- 12. What is chemical oxygen demand. How it is measured?
- 13. How oil spoilage effects the aquatic life on earth?

- 14. How is water purified by (a) aeration (b) Coagulation
- 15. What is smog. Under what conditions it is formed?

This year, there will be no long from this chapter.

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