## Download CBSE Board Class 12 Chemistry Topper Answer Sheet 2016 For Free

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केन्द्रीय भाध्यमिक शिक्षा बोर्ड, दिल्ली सीनियर स्कूल सर्टिफिकेट परीक्षा (कक्षा बारहवीं) परीक्षार्थी प्रवेश—पत्र के अनुसार भरे

| Par ser Subject Code : 0.43<br>Part ser Sen set fish<br>Part & Date of the Examination : WEDNESD!   | 47 9.3.2016                          |
|---|--------------------------------------|
| vedium of answering the paper : ENGLI   |                                      |
| Code Number Of the question paper.  Code Number  Code Number  56 2 N                                | Set Number  ③ ③ ③ ④                  |
| ारिकत जनप-पुरितका (ओ) की संख्या<br>o of supplementary answer-book(s) used                           | NIL                                  |
| विकलाग व्यक्ति : हाँ / नहीं<br>Person with Disabilities : Yes / No                                  | No                                   |
| हती शासीरक अक्षमता से प्रमावित हो तो संबंधित वर्ग है<br>https://cally.challenged, tick the category | 🗸 का निशान लगाएँ।                    |
| B D H S C   | A                                    |
| ्राप्तान त = मृत्र व राधित म = शारीरिक कम से विकर्श<br>- किसी भिन्न A = ऑटिस्टिक                    | ग, S = स्पास्टिक<br>cally Challenged |

रणक खोने में एक अवर तिखें। नाम के प्रत्येक मान के बीच एक खाना रिक्त छोड़ हैं। यदि परीक्षार्थी का नान 24 अक्षरों से अधिक है तो कंचल नाम के प्रथम 24 अक्षर ही लिखें। Each letter be written in one box and one box be left blank between each part of the

Each letter be written in one box and one box be left blank between each part of the name. In case Candidate's Name exceeds 24 letters, write first 24 letters.

कार्यालय उपयोग के लिए Space for office use

Whether writer provided : ्या गुण्डामेन है तो स्पर्धाम में लाए गये

It Visually challenged, name of software used :

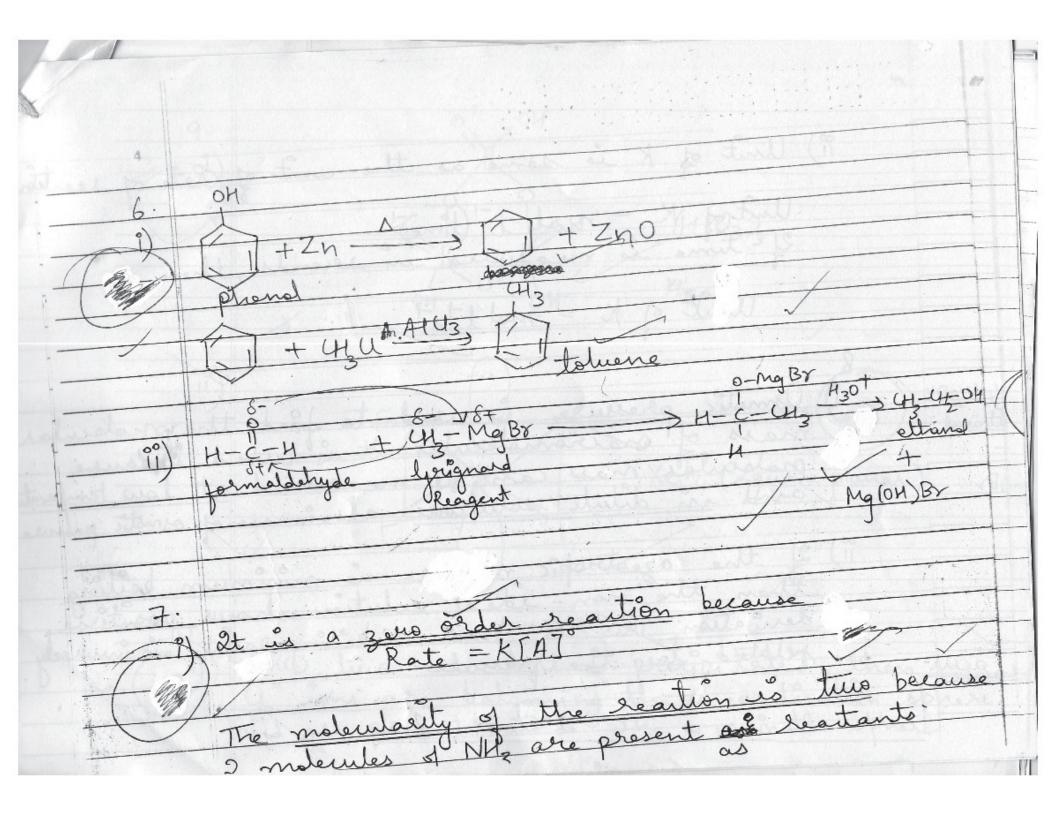
2650224

NIL

XII

Colloids are stable because of Brownson notion ement is the motiones particles where they non medium. It parements from setteling down. It is goneened by the size of partiles e charge on collotelal ow on heating due defeat called Umetal ex the lattice site. On heating, oxygen excapes to leaving behind the electron which give ZnO yellow.

The gas is Nitragen d'exide)  $(NO_3)_2 \xrightarrow{\Delta} 2PbO + O_2$ 2NO cooling NO4 -NH-41-41-43 reaction (1) is SN reai In the reaction (?) the configuration of a chiral carbon has been innerted. Innersion of configuration is a character of SN2 reaction



ii) Unit of K is some as the unit of Rate of reaction Unit of K = mol l'(time)'

24 time is measured in seconds, then Unit of k = mollist &. amotic pressure is used to find the molecular mass of marromolecules. It is used because molecular mass can be measured at low temperature and in dilute solutions also in case of osmotic pressure 11) 24 the azeotropic mixture is minimum boiling then the non-ideal solution shows positive.

derivation: This is because boiling point is inversely related to the pressure. ause

OH 0 ions are balancing the co-ordination sprage present outside the co-ordination sphere

[N; (H20), ]U2 9) Hexaquanickel (II) chloride In protonation, the lone pair on the oxygen atom lone pair of electrons are in conjugation with for giving to the proton. In ethand the lone air of electron on oxygen are not in conjugation. group increases the electron denerty on oxygen That is why ethand undergoes proton leg the intermolecular force of althantion.

stilestitution easily. 4-nethy 20) Oxidation number of Fe is +2 in [Fe(CN)] Mohal Fe<sup>2+</sup> - 3d° CN is a strong ligand . It p in the 3d orbital of Fe<sup>2+</sup>! s more 3d 4s 4p The six CN dions give their 6 pours of electron to the empty orbitals. The orbitals utilised for hybridisation are disp3: e. two 3d orbitals, are 4s orbitals and three up orbitals 10 magnetic ow spin comb [Co(en 242] is optically and outs en (9s - [6(en)242 optical isomers 4

| 10 | 12      |  |
|----|---------|--|
|    | /       | K = 0.693 min -  |
|    | 100     | 200  |
|    | -       | 1 11 6 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                      |
| ,  |         | $K = 0.3465 \times 10^{-2} \text{ min}^{-1}$                 |
|    |         | $K = 3.465 \times 10^{-3} \text{ min}^{-1}$                  |
|    | 14.     | 3  |
|    | ( B)    | O/W Emilion - It is oil in water emilion. 2                  |
|    |         | is the type of emulsion in which oil (dispersed)             |
|    |         | phase) is dispersed in water (dispersion nedius)             |
|    |         | Eg = Milk, Vannsing cream.                                   |
|    |         | as emulatying agent. Proteins, gums ete which act            |
|    |         | as emulating agent.  |
|    | 85)     | Zeta Potential - Zeta potential or Electio-Kinetic potential |
|    | 1 2 5 6 | is the potential difference developed between                |
|    |         | the electric double layer. The double layer                  |
|    |         | is formed when the colloid absorbe an ion                    |
|    |         |  |

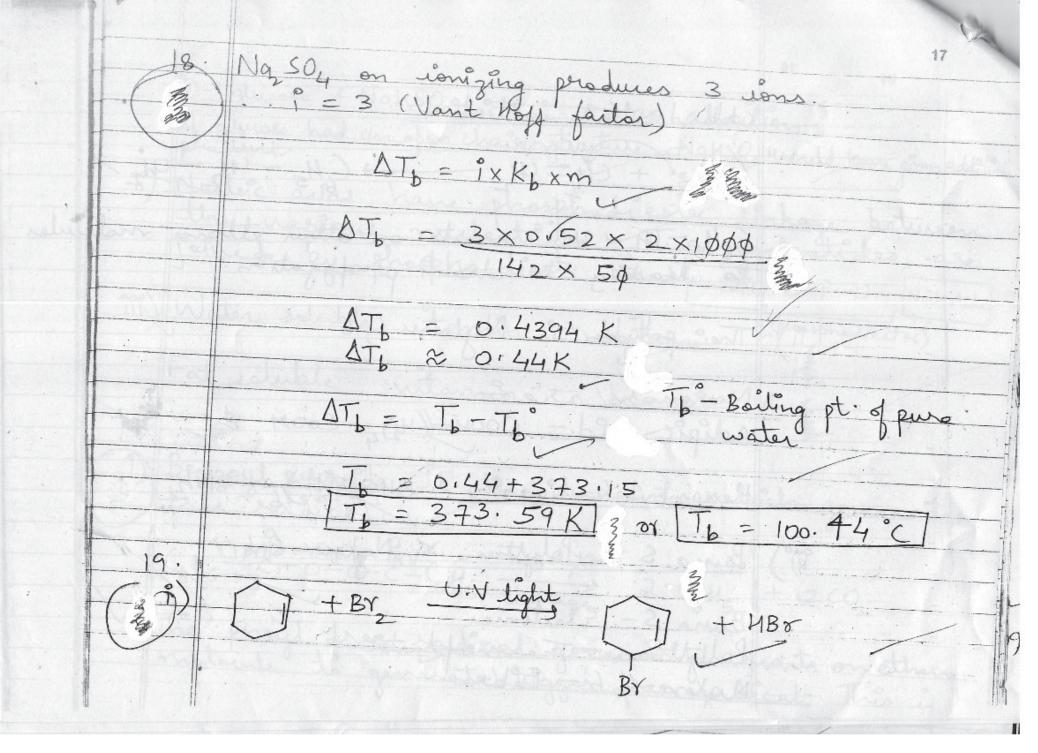
|   | which is common to the last T  |
|---|--|
| 000)  | another loose layer of opposite charges around it.   |
| 1   | the colloids which are les lember colloids are   |
|   | Multimolecular colloids - Multimolecular colloids are the colloids which are formed when many particle aggregate to form a particle which is in the colloids range. Eg - Gold: |
|   | range. Eg- gold.   |
| (3)   | densty = Z × Mol. mass.  NA × a <sup>3</sup>   |
|   | In FCC, Z = 4  |
|   | $a = 400 \times 10^{-10} \text{ cm}$ $a = 4 \times 10^{-8} \text{ cm}$   |
|   |  |
|   | $7 = \frac{4 \times \text{Mol. nors}}{N_A \times (4 \times 10^{-8})^3}$  |
| Cu-country and a second a second and a second and a second and a second and a second a second and a second a | mal. mass = 7 x N <sub>A</sub> x 64 x 10 <sup>-24</sup>  |

No. of moles of substance = given Molar No. of atoms NAX no. of notes No. of atom

D- glusse + NaMSO3 - > no addition. 3

pludent. had an open chain structure AlaMSO3 would have given addition
3 Nucleic aids have phosphodiester linkage between the narious nucleotides Two nucleotides are foined by phosphodiester bond Nucleotide OPO Nucleotide 111) Water soluble vitamin - Vitamin (phosphediester) Fat soluble vitanish - Vitanish A Benzoyl perovide is the reagent which generates (H5 C-0-0-C-C-C-45 thomolytic 2.(61/5 + 2002 The pheigh free radical generated reacts on otherse. I molecule to generate bigger free radical. This is

called chain initiation GH5+ CH=41- -- GH5-41-41 CoM5-41-42 reacts on other otherse (1) The polymer is Nylon-6, 6 Monomers are -adipic and - COOM-(42) 4- COOM Hexano 1,6-diamine - NH\_- (42)6-6NHz 000) Bung S < Polythene < Nylon-6, 6 Buna S- Elastomer Polythene - Thermoplastic Nylon-6, 6 - Eibre



Sulphur shows greater catenation tendency than onygen because the S-S bond is stronger than 0-0. The single bond between onygen is weaker because its size is small and the non-bonding electrons explicit inter electronic repulsion on law other. This repulsion we along the single bond and hence catenation in oxygen is dess.

Reducing character is a measure of the ability of the molecule to get oxidised. More he during character means that the molecule gets oxidised easily. In case of halogen aids, the tendency to get exidised is measured by its ability to lose hydrogen. Down the geroup as the size of halogen increases, the X-X bond becomes weak fleme down the group reducing characteristics.

ium silicale (00 NH4 NT BF4 NC

good knowledge of practical biology and chemistry esping pills or hypnotic drugs are barbiturates. Thout consulting the doctor if the sleeping Tranquilizars are the drugs that affect the (a) 9 Mn shows its highest exidation state in the Mn, On and whose highest exidation state with

orine in Mnty. Highest oxidation states are ability to form muttiple bonds with the multiple bonds. 11) Zirlonium and Hafnium have similar profestion Contraction. Zr is an dement of 4d series and III is an element of 5d series. Before 5d deries, there is the 4 series. due to 4 electrons is poor, hence the effective attention on 5d cleatrons by the runder is more. The increase in size due to addition of new shell is compensated by the poor screening of

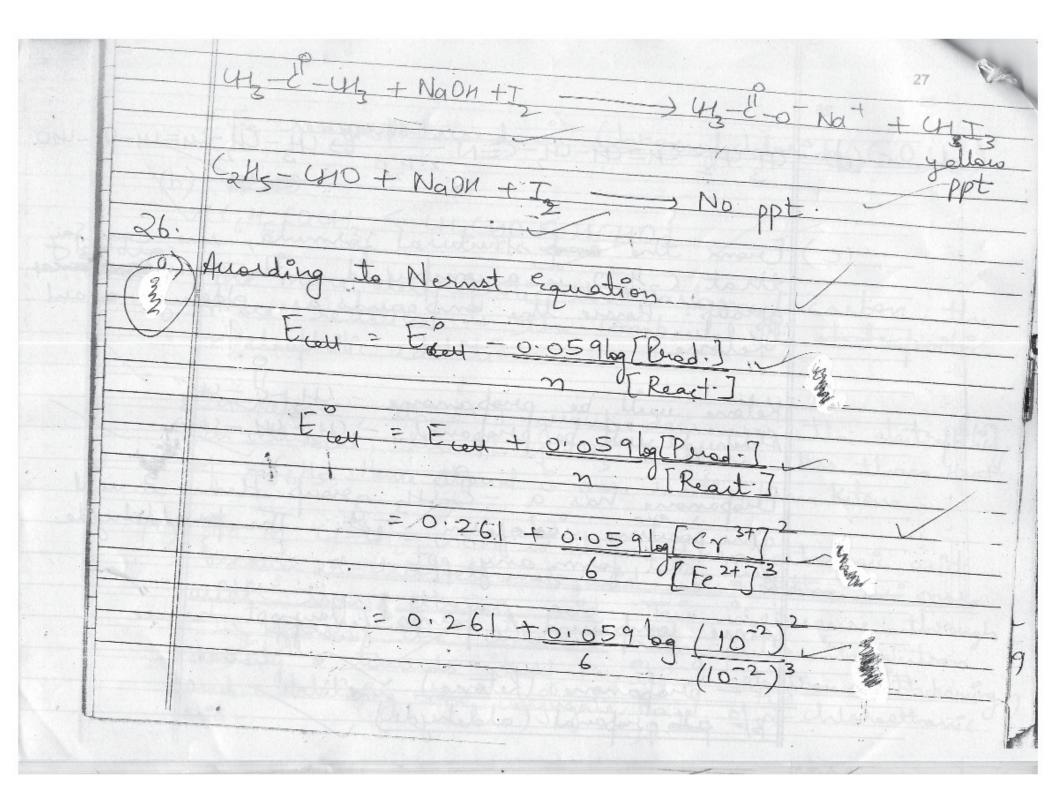
electrons when we more from 4d to 1 5d. Henre Zx and HI have similar size and

proporties.

Transition notals act as good catalyst because of their ability to adopt multiple oxidation states and form complexes. They form complexes because of their small size thigh charge (i.e. large surface charge denerty) and the d-orbitals: i) 2Mn02 + 4KOH + 02 - >2K2Mn04 + 2H2O  $(2)^{2} + 14H^{+} + 6I^{-} \rightarrow 3I + 2(r^{3} + 740)$ (3) Etard reaction is used to convert toluene or its derivatives into Benzaldehyde and derivatives.

(4) + (4024) - (4)(06(0)442)2 +305, 7

The reagent used is Chromyl chloride (40 4 (b) | DE 100 CoHz COCHZ < CHZCHO < MCHOZ The more electrophylic the carbonyl carbon, the more reactive is the compound to descriptive addition. In Ketone, the + T group decreases the electrophility In ethanal, the +t of-413 is broome Uses than that of - CoHs. Hence ethanal is more reactive than Ketone 19 pla of 4-42-6001 is lower than ethanoic and because 2d-chloroethanoic and is a letter ari male andic than though and. This is kerause, through -I effect, the chlorine atom pulls the dectron density of towards itself it it is electron withdrawing of and stabilising the conjugate base of 2-chloreethanic



Eul = 6 0.261 + 0.059 log 10-6  $=0.261 + 0.059 \log 10^2$ + 0.059X2 eu = 0.28066 V conclude that the more negative the reductive potential is, the better is the species a reductive agent i.e. it has higher tendency to get exidised. Kusting of iron is due to its oxidation from

exidise Exidice au noissor 2000