

୪,୫୦୦ କୋଟିର ପ୍ରକଳ୍ପ ଶୁଣାଇସି କରିବେ ମୋହି

ଭୁବନେଶ୍ୱର, ନାଟ



ଖବରଦାତା ସମ୍ବିଲନୀରେ ଉପସ୍ଥିତଥିବା ଅଧିକାରୀଙ୍କ

- ମନୀଂ କେଟିର ନ ରାଜପଥ
ପ୍ରକଳ୍ପ ଉପିପ୍ରସ୍ତର
 - ବାଲେଶ୍ୱର-ଦୁର୍ଗାପୁର-ହଳଦିଆ
ଗ୍ୟାସ୍ ପାଇୟ ଲାଇନ
 - ବାଲେଶ୍ୱରରେ ମଳି ମୋହାଲ ପାର୍କ

ଲାଗି ୮୭.୩୭ କେଟି ଚଙ୍ଗା ବ୍ୟମ ଅଚଳକ
ରଖାଯାଇଛି । ୧୦୨୦ ମେ ସୁନ୍ଦା ପ୍ରକଳ୍ପ କାର୍ଯ୍ୟ
ସାତିବାକୁ ଲକ୍ଷ୍ୟ ରହିଛି । ସେହିଭଳି ଏଣ୍ଠିରୁ
କେଟି ଚଙ୍ଗା ବ୍ୟମରେ ଏନ୍ଧର-ଗର ସିଙ୍ଗତି
ବିଶ୍ୱବାହାଳ ସେବନର ୪ ଲେଟ୍‌ କାର୍ଯ୍ୟ
ଏବଂ ୧୧୭.୪ କେଟି ବ୍ୟମରେ ଏନ୍ଧର-
୧୧୪ ର ୫୩.୭ କିମି କୋଙଡ଼ା-ରାଜାମୁଖ
ସେବନର ମଧ୍ୟ ଭିତ୍ତି ପ୍ରସ୍ତର ଦିଆଯିବ । ଏହା
ପ୍ରକଳ୍ପଗୁଡ଼ିକର କାର୍ଯ୍ୟ ଯଥାକ୍ରମେ, ମାର୍ଚ୍ଚ ୧୦୨୧
ଏବଂ ମେ ୧୦୨୦ ମଧ୍ୟରେ ଶେଷ କରିବାର
ଯୋଜନା ରହିଛି । ଏହି ଶାନ୍ତିମଧ୍ୟ ପରିବହନ

ଗାନ୍ଧାରା ସାମାଜିକ ଅନୁଷ୍ଠାନିକ ପ୍ରକାଶକୁ
୨ ପାସେଞ୍ଚର ଟ୍ରେନଙ୍କୁ ମୋଦି ଶୁଭାରମ୍ଭ
କରିବେ । ଏହା ସ୍ଵାରା ଲୋକମାନେ ହ୍ରାତାଙ୍କୁ
ରେଳ ସଂଯୋଗ ପାଇପାରିବେ । ଏହା ସହ
ମୁଖ୍ୟଙ୍କ ଭାବୀ ଗାନ୍ଧାରାର ସମ୍ମାନଙ୍କୁ ଏ ଦିନ
ତ୍ରେଣ ସେବା ଉପଲବ୍ଧ ହେବ । ସେହିଭିତ୍ତି ଏହି
ରେଳ ଲାଇନର ବିଦ୍ୟୁତୀକରଣ କାର୍ଯ୍ୟକୁ ମଧ୍ୟ
ଅନୁମୋଦନ ମିଳିଛି । ନରଶପୁର-ବସନ୍ତପୁର
ଏବଂ ଚିଲିକିଡ଼ା-ଶଗଡ଼ପଟା ଲାଇନର
ଦୋହରାକରଣଙ୍କୁ ଲୋକଙ୍କ ଉଦ୍ଦେଶ୍ୟରେ
ଲୋକାର୍ପଣ କରାଯିବାର କାର୍ଯ୍ୟକ୍ରମ ରହିଛି ।
ଚିଲିକିଡ଼ା-ଶଗଡ଼ପଟା ୧୧.୩ କିମି ଏବଂ
ନରଶପୁର-ବସନ୍ତପୁର ୯ କିମି ଲାଇନର
ଦୋହରାକରଣ କାର୍ଯ୍ୟ ୧୩୧.୫୪ କୋଟି ଟଙ୍କା
ବିନିଯୋଗରେ ସମ୍ପୂର୍ଣ୍ଣ ହୋଇଛି । ଏହା କେନ୍ଦ୍ରର
ଏବଂ ଯାଜପୁର ଜିଲ୍ଲାକୁ ସଂଯୋଗ କରିବ ।

ବାଲେସ୍ଵରରେ ୨୪ କୋଟି ଟଙ୍କା
ବିନିଯୋଗରେ ପ୍ଲାପନ ହୋଇଥିବା ମନ୍ତ୍ର
ମୋତାଳ ଲଜିଷ୍ଟିକ ପାର୍କ (ୱମ୍ବମାନଲିପି)
ମଧ୍ୟ ଲୋକାର୍ପଣ ହେବ । ଏଠାରେ ଆମଦାନ
ତଥା ରପ୍ତାନି ଲାଗି କଷ୍ଟମ୍ବ ଫାର୍ମିଲିଟେଶନ
ପ୍ରକଟଟ ରେଳପଥର ମୁଖ୍ୟ ପିଆରାଣ୍ଡ ଜେ.ପି.
ମିଶ୍ର, ଏକାର୍ଥାରାଇ ଜିଏମ୍ ଏ.କେ ରାଏ,
ଆଞ୍ଚଳିକ ପାସ୍ପାର୍ଟ ଅଧିକାରୀ ସୁଧାବ୍ରତ
ଶେଖର ମିଶ୍ର, ଆରଓର୍ବିଏଲ ବିନିଯୋଗ
କର୍ପୋରେଟ କମ୍ପ୍ୟୁନିକେସନ ମ୍ୟାନେଜଟ
ଶ୍ରୀନିବାସ ପାତ୍ର ପ୍ରମୁଖ ଉପମ୍ରିତ ଥିଲେ

ଖରାପ ପାଗ ଯୋଗୁ ଣ ବିମାନ ବାତିଳ

**Thrill continues...
now in Cuttack**



Achanta Sharath Kamal

In the august presence of

Shri D.P. Bagchi, IAS (Retd.)
Former Chief Secretary, Odisha,
Secretary, Govt. of India
and Chairman Emeritus, OSTTA

Shri Sanjay Kumar Singh, IAS
Commissioner-cum-Secretary to Govt
SD&TE and I&PR Dept.,
Govt. of Odisha, CMD, IDCO &
Chairman, MPPR, President, CCTTA

Shri Mahendra Ku. Mallick, IAS
RDC (Central Division), Cuttack

Shri Aravind Agarwal , IAS
Collector and DM, Cuttack

Shri Rabindra Kumar Parikh
Hon'y Secretary, OSTTA

Shri L. N. Gupta, IAS
Addl. Chief Secretary
MSME Dept., Govt. of Odisha
& President, OSTTA

A full-body portrait of Naveen Patnaik, the Chief Minister of Odisha. He is a middle-aged man with grey hair, wearing a white kurta-pajama. He is standing with his arms crossed over his chest, looking directly at the camera with a slight smile. The background is a solid blue color.

Inauguration of **80th Senior National & Inter-State Table Tennis Championships**

by
Shri Chandra Sarathi Behera
Hon'ble Minister
Electronics & IT, Sports & YS, Odisha

on Friday, 4th January 20

Jawaharlal Nehru Indoor Stadium, Cuttack

Guest of Honour

Shri Vishal Kumar Dev, IAS
Commissioner-cum-Secretary to Govt.
Sports & YS and Tourism Dept.
Govt. of Odisha

Presided

Shri L. N. Gupta, IAS
Addl. Chief Secretary
MSME Dept., Govt. of Odisha
& President, OSTTA



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By B.M. Panda Sir

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By Ashutosh Sir & Deepak Sir

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3 months Test Series Free

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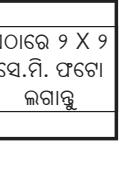
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ଜନ୍ମଦିନ ଶୁଭେଳା



ନାମ:
ବସ୍ତ୍ର:
ଜନ୍ମ ତାରିଖ:

ପାପୁର
ପରିବାରରେ

ଉଦୟ
ପରିବାରରେ

୧୦ାରେ ୨ X ୨
ହେ.ମ. ଫଟୋ
ଲାଇସ୍

ଦର୍ଶକଙ୍କ: ଏହି କୁନ୍ତର ବ୍ୟବହାର କରି ସମ୍ପୂର୍ଣ୍ଣ ମାରାଗେ କୁନ୍ତର ଶୁଭେଳା ରଖାଇଛା ତଥା ଏହି କୁନ୍ତର ସହିତ କୁନ୍ତର ପ୍ରକାଶର ବ୍ୟବହାର କରିବା ଅବଶ୍ୟକ ହିଁ

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SALE

Penguin homes Pvt. Ltd. land required for housing project in Bhubaneswar/ Cuttack. Contact: 9937254467, 7008107711. D-65238

Pay 50% get gharabari duplex approved plot near Tankapani bridge, Bhubaneswar, rest after developed and amenities. First ten customers. 9861990662. D-52883

GITA College
ନିକଟରେ 1200 sqft.
3,99,000/-ରେ plot ମିଳିଛି।
8280224744. D-64398

ହେଲ୍‌ପାଳ 100' କେନାଳ
ପିଲ୍ଲାଗ୍ରାମକୁଳାଗି 9,75,000/-ରେ
ଘରବାଟି, ଉଲ୍ଲେଖିତ,
ପାରେଇଥାଇ କାରୀ କରି ଦୁଇ ଘର
କରନ୍ତୁ: 943703320. D-65306

କୁନ୍ତନେଶ୍ଵର ସୁନ୍ଦରପଦା Indus Engineering କଲେଜ
backside sqft.- 199/-ରେ
ମୁଠ ମିଳୁଅଛି। 8338932027.
D-65312

Plot sale near AIIMS Hospital Bhubaneswar with 30' road. 8456850883. D-65311

For sale Paradeep town 11000 sqft. gharabari plot with boundarywall in residential area. Contact M: 9938219434. D-10255

Residential plot with revenue road and electricity near Patia Railway Station. 7978441564. D-10368

New year offer, କୁନ୍ତନେଶ୍ଵର ପର୍ତିଆ ଲେଲ୍‌ପାଳ ଷେଣ୍ଟର କୁନ୍ତନେଶ୍ଵରପୁର ମୌଳି 100' roadକୁଳାଗି 1200 sqft. 5,90,000/-ରେ
ମୁଠ ମିଳୁଅଛି (boundary/registration free) 9937542232. D-65318

କୁନ୍ତନେଶ୍ଵର ବାଲକାଟି ବକାରରୁ
3km. ଦୂରତାରେ 30'ରୋଡ୍,
ଲେଲ୍‌ପାଳ ସୁନ୍ଦରା ଥାଇ ଘରବାଟି
ପାରେଇସଥ ପିଲ୍ଲାଗ୍ରାମକୁଳାଗି sqft.
480/-, ବରଣାଗେରୁ 1km.
ଦୂରତାରେ 1200କୁ 2,40,000/-ରେ ବିକ୍ରିହେବା 9090053827,
9348020724. D-65319

10,000 sqft. Gharabari plot infront CET Collage, Ghatikia, Bhubaneswar with 30' Road. 9938563585. D-65431

2000 sqft. plot (12Nos.) at Sankarpur, Vipul Garden backside, Ghatikia, Bhubaneswar (electricity, supply water, 30' Road). 7381564227. D-65432

SC/ST Gharabari plot at kalinga Nagar, Bhubaneswar (Back side Tata Ariana) 40' Road, Compoundwalls. 9938563585. D-65433

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ଦିତୀୟ ଜନ୍ମଦିନ ଶୁଭେଳା

(ପାପୁର)
ସାଇ ଭବ୍ୟକ୍ରିୟ
ନିରବକଣ୍ଠ, ପାଚାରୀ, ଭୁବନେଶ୍ବର
ପ୍ରେମବିବାହ, ଶତମାନ, ଗରାଧନ
ପ୍ରାଣି, ଲାଗେରି ନମର ରାଯାରେଣ୍ଟି।
୯୫୨୧୮୭୪୧୦. D-10341

AFFIDAVIT

By virtue of affidavit before Notary Public, Bhubaneswar, I Harapriya Moharana changed my name to Harapriya Mohapatra. Henceforth I shall be known as Harapriya Mohapatra for all purpose. D-10367

GITA College
ନିକଟରେ 1200 sqft.
3,99,000/-ରେ plot ମିଳିଛି।
8280224744. D-64398

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ପିଲ୍ଲାଗ୍ରାମକୁଳାଗି 9,75,000/-ରେ
ଘରବାଟି, ଉଲ୍ଲେଖିତ,
ପାରେଇସଥ କାରୀ କରି ଦୁଇ ଘର
କରନ୍ତୁ: 943703320. D-65306

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ପାରେଇସଥ କାରୀ କରି ଦୁଇ ଘର
କରନ୍ତୁ: 943703320. D-65306

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Mock Test Paper for Std X, XII CBSE Board, IIT - JEE Main & Advanced.

FOR ANSWERS VISIT : www.dharitri.com

MOCK TEST PAPER # 3

CLASS-XII (CHEMISTRY)

Time Allowed : 3 hours

Maximum Marks: 70

GENERAL INSTRUCTIONS

- All questions are compulsory
- Q. No. 1 to 5 are very short answer questions and carry 1 mark each.
- Q. No. 6 to 12 are short answer questions and carry 2 marks each.
- Q No. 13 to 24 are also short answer questions and carry 3 marks each.
- Q. No. 25 to 27 are long answer questions and carry 5 marks each.
- Use log tables if necessary, use of calculators is not allowed.

- Iodine forms I_3^- but F_2 does not F_3^- ions. Why ?
- What is meant by inversion of sugar ?
- Why is sulphuric acid not used during the reaction of alcohols with KI ?
- For the reaction $A + 2B \rightarrow AB_2$, the rate constant is $1.26 \times 10^{-3} \text{ L mol}^{-1}\text{s}^{-1}$. What is the order of the reaction ?
- Name the ionization isomer of $[\text{Cr}(\text{H}_2\text{O})_5\text{Br}]SO_4$.
- Arrange the following carbonyl compounds in increasing order of their reactivity in nucleophilic addition reaction.
Benzaldehyde, *p*-tolualdehyde, *p*-nitrobenzaldehyde, acetophenone.
- What happens when an electric field is applied to a colloidal dispersion ?

OR

Do the vital functions of body such as digestion get affected during fever ? Explain your answer.

- Alcohols are comparatively more soluble in water than the hydrocarbon of comparable molecular mass ? Explain this fact.
- State reasons for the following
 - Rusting of iron is said to be an electrochemical phenomenon.
 - For a weak electrolyte, its molar conductance in dilute solution increases sharply as its concentration in solution is decreased.
- a. Why does chlorine water lose its yellow colour on standing ?
b. What happens when Cl_2 reacts with cold dilute sodium hydroxide ? Write equation only.
- a. What are the products obtained by hydrolysis of lactose ?
b. Why cannot vitamin C be stored in our body ?
- What do you understand by the terms glycosidic linkage and peptide linkage ?
- Account for the following:
 - CH_3CONH_2 is a weaker base than CH_3CONH_2 is a weaker base than $\text{CH}_3\text{CH}_2\text{NH}_2$.
 - ROH is a stronger acid than RNH_2 .
- While preparing monobromoaniline why is aniline acetylated before reacting it with bromine ? Explain.
- a. Express the relationship between the rate of production of iodine and the rate of disappearance of hydrogen iodide in the following reaction : $2\text{HI} \rightarrow \text{H}_2 + \text{I}_2$.
b. The rate of formation of a dimer in a second order dimerisation reaction is $9.1 \times 10^{-6} \text{ mol L}^{-1} \text{ s}^{-1}$ at 0.01 mol L^{-1} monomer concentration. Calculate the rate constant.
- Aluminium crystallizes in a cubic close packed structure. Its metallic radius is 125 pm.
 - What is the length of the side of the unit cell ?
 - How many unit cells are there in 1.00 cm^3 of aluminium ?

OR

Examine the illustrations of a portion of a defective crystal given below and answer the following questions.



- What are these type of vacancy defects called ?
- How is the density of a crystal affected by these defects ?
- Name one ionic compound which can show this type of defect in crystalline state.
- How is the stoichiometry of the compound affected ?
- What is an adsorption isotherm ? Describe freundlich isotherm.
- Account for the following
 - Bond dissociation energy of F_2 is less than that of Cl_2

- Both NO and ClO_2 are odd electron species but NO dimerises ClO_2 does not.
 - Bleaching of flowers by chlorine is permanent while that by sulphur dioxide is temporary.
19. Explain why
- the dipole moment of chlorobenzene is lower than that of cyclohexyl chloride ?
 - alkyl halides, though polar, are immiscible with water ?
 - Grignard's reagents should be prepared under anhydrous conditions ?
20. Write the names and molecular structures of the monomers of the following polymers. Give one use of each specifying the property responsible for this use.
- Glyptal
 - Nylon-6
 - Neoprene
21. Give reason for the following:
- Amino acids have relatively higher melting point as compared to corresponding halo acids.
 - Amino acids are amphoteric in nature.
 - On electrolysis in acidic solution amino acids migrate towards cathode while in alkaline solution these migrate towards anode.

22. Show how will you synthesize

- 1-phenylethanol from a suitable alkene.
- Cyclohexylmethanol using an alkyl halide by S_N2 reaction.
- Pentan-1-ol using a suitable alkyl halide.

23. a. How is leaching carried out in case of low grade copper ores ?

b. The value of $\Delta_f G^\circ$ for formation of Cr_2O_3 is -540 kJ mol^{-1} and that of Al_2O_3 is -827 kJ mol^{-1} . Is the reduction of Cr_2O_3 possible with aluminium ?

24. Describe the following with suitable examples.

- Tranquilizers
- Antifertility drugs
- Antihistamines

25. a. Henry's law constant for CO_2 in water is $1.67 \times 10^8 \text{ Pa}$ at 298 K . Calculate the quantity of CO_2 in 500 mL of soda water when packed under 2.5 atm CO_2 pressure at 298 K .

b. The depression in freezing point of water observed for the same amount of acetic acid, trichloroacetic acid and trifluoroacetic acid increases in the order given above. Explain briefly.

OR

a. 0.5 g KCl was dissolved in 100 g of water and the solution originally at 20°C , froze at -0.24°C . Calculate the percentage ionization of salt. K_a per 1000 g water = 1.86 K

b. What role does the molecular interaction play in solution of alcohol and water ?

26. Give plausible explanation for each of the following:

- Cyclohexanone forms cyanohydrin in good yield but 2, 2, 6-trimethylcyclohexanone does not.
- There are two $-\text{NH}_2$ groups in semicarbazide. However, only one is involved in the formation of semicarbazone.
- During the preparation of esters from a carboxylic acid and an alcohol in the presence of an acid catalyst, the water or the ester formed should be removed as soon as it is formed.

OR

An organic compound (A) molecular formula $\text{C}_8\text{H}_{16}\text{O}_2$ was hydrolyzed with dilute sulphuric acid to a carboxylic acid (B) and an alcohol (C). Oxidation of (C) with chromic acid produced (B), (C) on dehydration gives but-1-ene. Write equations for the reactions involved.

27. a. The electric configurations of two members of the lanthanoid series are as follows $4f^15d^16s^2$ and $4f^75d^06s^2$. What are their atomic numbers ? Predict the oxidation states exhibited by these elements in their compounds.

b. Assign reaction for each of the following statement.

- The largest number of oxidation states are exhibited by the elements in the middle of the first row of the transition elements.
- The atomic radii decreases in size with the increasing atomic number in the lanthanoid series.

OR

a. Explain giving reasons

i. Transition elements and their compound exhibit paramagnetic behaviour.

ii. Transition elements and their compounds are found to be good catalysis.

iii. Enthalpies of atomization of the transition elements are high.

b. Compare the chemistry of actinoids with that of the lanthanoid in reference to

i. Atomic and ionic sizes

ii. Oxidation states.

For Answers visit: www.dharitri.com

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