

ଧରିତ୍ରୀ

DHARITRI

ଡେଙ୍କାନାଳ, ବୁଧବାର, ୧୯ ଡିସେମ୍ବର, ୨୦୧୮

(୨୦ ମୃଷ୍ଟା)

Dhenkanal, Wednesday, 19 December, 2018

★★★★★

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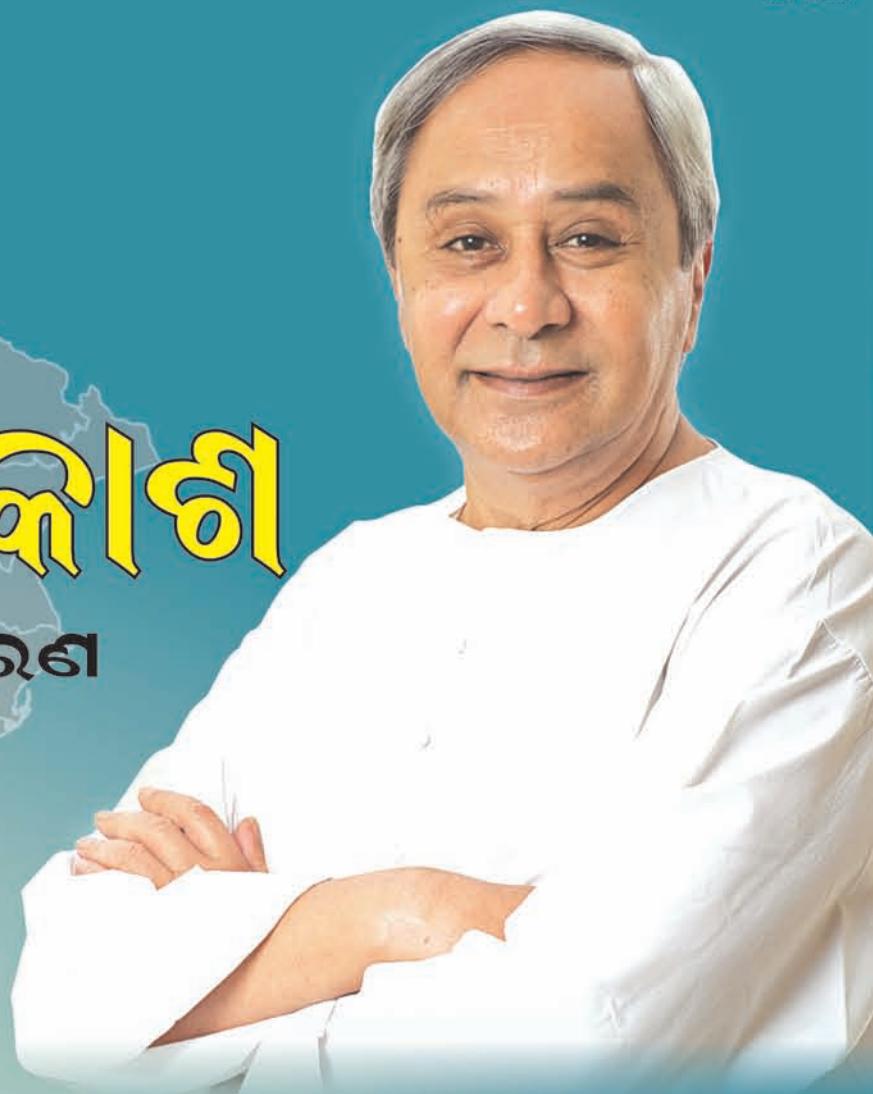


ଆମ ଗାଁ ଆମ ବିକାଶ

ନବୀନ ଓଡ଼ିଶାର ନୂତନ କିରଣ

ଏହି PEETHA

(Peoples' Empowerment - Enabling Transparency and Enhancing Accountability on Odisha Initiatives)



ଘରେ ଘରେ ଆଜି ବିଜୁଳି
ଓଡ଼ିଶା ଜଳାଶୀ ବେଳି



ଆମ ମୁଖ୍ୟମନ୍ତ୍ରୀ ଦେଇଥିବା କଥା ଆଜି କାର୍ଯ୍ୟରେ ପରିଣତ ହୋଇଛି । ଓଡ଼ିଶାର ସବୁ ଘରକୁ ବିଜୁଳି ଶକ୍ତି ଯୋଗାଇବା କଥା ଆଜି ସତ ହୋଇଛି । ୯୪ ଲକ୍ଷରୁ ଅଧିକ ଘରକୁ ଆମେ ବିଦ୍ୟୁତ୍ ସଂଯୋଗ ପହଞ୍ଚାଇ ସାରିଛୁ । ଯଦି କୌଣସି ପରିବାର ବିଦ୍ୟୁତ୍ ସଂଯୋଗ ଏପାଏଁ ପାଇ ପାରି ନାହାନ୍ତି, ସେମାନେ ଏହି ଡିସେମ୍ବର ମାସର ୧୫ ରୁ ୨୦ ତାରିଖ ମଧ୍ୟରେ ପ୍ରତି ପଞ୍ଚାଷ୍ଟରେ ଅନୁଷ୍ଠାତ ହେଉଥିବା 'ପିଠା' (PEETHA) ଶିବିରରେ ପହଞ୍ଚି ବିନା ଜମାରେ ବିଦ୍ୟୁତ୍ ସଂଯୋଗ ପାଇଁ ଆବେଦନ କରନ୍ତୁ ।

ଶକ୍ତି ବିଭାଗ, ଓଡ଼ିଶା ସରକାର



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

FOR ANSWERS VISIT : www.dharitri.com

MOCK TEST PAPER # 1 JEE (Main) (CHEMISTRY)

Time : 1 hour

Maximum Marks: 120

GENERAL INSTRUCTIONS

For each question you will be given 4 Marks if you have darkened only the bubble corresponding to the correct answer and zero mark if no bubble is darkened. In all other cases, minus one (-1) Marks (NEGATIVE MARKING) will be given.

SINGLE CORRECT ANSWER

- Which of the following method is(are) used to remove temporary hardness of water ?
 A Boiling hard water B Clark's method C Calgon's method
The correct choice is :
 A Only I B Both I and II C II and III D I, II and III
- Metallic gold crystallizes in FCC lattice with edge-length of 4.070 Å. Closest distance between gold atoms is:
 A 2.035 Å B 8.140 Å C 2.878 Å D 1.357 Å
- The ratio of the energy of the electron in ground state of hydrogen to that of the electron in first excited state of Be³⁺ is:
 A 1:4 B 1:8 C 1:16 D 16:1
- The correct order of increasing C–O bond length of CO, CO₃²⁻, CO₂ is:
 A CO₃²⁻ < CO₂ < CO B CO₂ < CO₃²⁻ < CO
 C CO < CO₃²⁻ < CO₂ D CO < CO₂ < CO₃²⁻
- H₂(g) + $\frac{1}{2}$ O₂(g) → H₂O(l)
B.E. (H–H) = x₁; B.E. (O = O) = x₂; B.E. (O–H) = x₃; Latent heat of vaporization of water liquid into water vapour = x₄, then ΔH_f (heat of formation of liquid water) is
 A x₁ + $\frac{x_2}{2}$ – x₃ + x₄ B 2x₃ – x₁ – $\frac{x_2}{2}$ – x₄
 C x₁ + $\frac{x_2}{2}$ – 2x₃ – x₄ D x₁ + $\frac{x_2}{2}$ – 2x₃ + x₄
- Depression of freezing point of 0.01 molal aq. CH₃COOH solution is 0.022°C. 1 molal urea solution freezes at -2.0°C. Assuming molality equal to molarity, pH of CH₃COOH solution will be:
 A 2 B 3 C 3.2 D 4.2
- For reaction A → Product, [A]₀ = 2M. After 10 minutes reaction is 10% completed. If $\frac{d[A]}{dt} = -k[A]$ then T₅₀ is approximately: (log 3 = 0.48)
 A 0.693 min B 69.3 min C 66.0 min D 0.693 min
- How many Faradays are required to reduce one mole of MnO₄⁻ to Mn²⁺?
 A 1 B 2 C 3 D 5
- The rate of a chemical reaction generally increases rapidly even for small temperature increase because of a rapid increase in the:
 A collision frequency
 B fraction of molecules with energies in excess of the activation energy
 C activation energy
 D average kinetic energy of molecules
- Amount of gas adsorbed per g of adsorbent increases with pressure, but after certain limit is reached, adsorption becomes constant. It is where:
 A multilayers are formed B desorption takes place
 C temperature is increased D adsorption also starts
- Bond-length of HCl is 1.25 Å (e = 4.8 × 10⁻¹⁰ e.s.u.). If μ = 1.02D, then HCl is:
 A 100% ionic B 83% covalent C 50% covalent D 40% ionic
- Ag₂S + NaCN → (A). (A) + Zn → (B). (B) is a metal. Hence, (A) and (B) are:
 A Na₂[Zn(CN)₄]₂Zn B Na[Ag(CN)₂]Ag
 C Na[Ag(CN)₄]Ag D Na₃[Ag(CN)₄]Ag
- H₂O₂ can be obtained when following reacts with H₂SO₄ except with:
 A PbO₂ B BaO₂ C Na₂O₂ D SrO₂
- Molten sodium chloride conducts electricity due to the presence of:
 A Free electrons B Ions C Na atom D Cl atom
- Which of the following compounds possess Lewis acid character?
1. BF₃ 2. SiF₄ 3. PF₅
Select the correct answer using the codes given below:
 A 1 alone B 1, 2 and 3 C 2 and 3 D 1 and 3
- Match List I with List II and select the correct answer using the codes given below the lists:
List I (Metals) **List II (Ores)**
[P] Zinc 1. Azurite
[Q] Tin 2. Carnallite
[R] Copper 3. Calamine
[S] Magnesium 4. Cassiterite

Codes:

- (A) P → 3, Q → 4, R → 2, S → 1 (B) P → 3, Q → 4, R → 1, S → 2
(C) P → 4, Q → 1, R → 3, S → 2 (D) P → 4, Q → 3, R → 2, S → 1
17. Melting points of NaCl, NaBr, NaI and NaF will be in the order:
(A) NaI < NaBr < NaCl < NaF (B) NaF < NaCl < NaBr < NaI
(C) NaBr < NaF < NaCl < NaI (D) NaCl < NaI < NaF < NaBr
18. Which of the following compounds show optical isomerism? (en = ethylenediamine)

- I. cis-[Co(NH₃)₄Cl₂]⁺ II. trans-[Co(en)₂Cl₂]⁺
III. cis-[Co(en)₂Cl₂]⁺ IV. [Co(en)₃]³⁺

Select the correct answer using the codes given below:
(A) I and II (B) II and III (C) III and IV (D) I, III and IV

19. When H₂O₂ is added to an acidified solution of K₂Cr₂O₇:
(A) solution turns green due to formation of Cr₂O₃
(B) solution turns yellow due to formation of K₂CrO₄
(C) a deep blue-violet coloured compound CrO(O₂)₂ is formed
(D) solution gives green ppt of Cr(OH)₃
20. Consider the following compounds:
I. Sulphur dioxide II. Hydrogen peroxide III. Ozone
Among these compounds, those which can act as bleaching agents would include:
(A) I and III (B) II and III (C) I and II (D) I, II and III
21. In the detection of nitrogen, blue colour is due to the formation of Prussian blue. It is:
(A) NaFe^{II}[Fe^{II}(CN)₆] (B) NaFe^{II}[Fe^{III}(CN)₆]
(C) Na₄[Fe(CN)₆] (D) Na₃[Fe(CN)₆]
22. Total number of isomers of C₄H₁₀O will be:
(A) 4 (B) 5 (C) 6 (D) 7
23. An alkene on ozonolysis yields only ethanal. There is an isomer of this which on ozonolysis yields:
(A) propanone and methanal (B) propanone and ethanal
(C) ethanal and methanal (D) only propanone
24. Consider the following reaction sequence
$$\text{C}_3\text{H}_8\text{Cl}_2 \xrightarrow[\substack{3. \Delta}]{} \begin{matrix} \text{CH}_3 & \text{CHCOOH} \\ | & \\ \text{CH}_3 & \end{matrix}$$

Hence (A) is:
(A) 1, 1-Dichloro propane (B) 1, 2-Dichloro propane
(C) 2, 2-Dichloro propane (D) 1, 3-Dichloro propane
25. End product of the following sequence of reaction is:

(A)
(B)
(C)
(D)

26. End product of the following sequence of reaction are

(A) Yellow ppt. of CHI₃
(B) Yellow ppt. of CHI₃
(C) Yellow ppt. of CHI₃
(D) Yellow ppt. of CHI₃

27. Which of the following compound has maximum percentage of Cl?
(A) PVC (B) BHC (C) Neoprene (D) DDT
28. Which of the following is not a pyrimidine base?
(A) Thymine (B) Guanine (C) Cytosine (D) Uracil
29. On hydrolysis, which of the following carbohydrates gives only glucose?
(A) Sucrose (B) Lactose (C) Maltose (D) Galactose
30. Which of the following pairs of isomers and types of isomerism are correctly matched?
I. [Co(NH₃)₅(NO₂)] and [Co(NH₃)₅(ONO)]Cl₂ linkage.
II. [Cu(NH₃)₄][PtCl₄] and [Pt(NH₃)₄][CuCl₄] Coordination.
III. [Pt(NH₃)₄Cl₂]Br₂ and [Pt(NH₃)₄Br₂]Cl₂ ionization.
Select the correct answer using the codes given below:
(A) II and III (B) I, II and III (C) I and III (D) I and II

For Answers visit: www.dharitri.com

କୁଷ୍ଟରହୁରୀୟ ମିନାମେଳା ଯୌନଶୋଷଣ ମାମଳା: ସୀମାଞ୍ଜଙ୍କ ଜାମିନ ଖାରଜ

କାନ୍ଦାଳ, ୧୮/୧୯ (ଡି.ଏନ୍.ଏ.)



ହିଦେଲ କୁଳ ବନ୍ଦ ଉଚ୍ଚ ପ୍ରାଦିମିକ ବିଦ୍ୟାଳ୍ୟରେ ମଙ୍ଗଳବାର ଏକଦିବସୀୟ କୁଷ୍ଟରହୁରୀୟ ମିନାମେଳା ଆନ୍ଦୋଳନ ହୋଇଯାଇଛି। ଗରେଷ୍ଣର କୁଳ ଏବଂ ଆଇଲାପି ଦୂଷସଥର ମିଳିତ ଆନ୍ଦୋଳନରେ ଏହି ମୋଳା ଆଯୋଜିତ ହୋଇଥିଲା।

ଏଥରେ ବନ୍ଦା, କୁଷ୍ଟିଆ ବେହେରା ଏହାରୁ ସଂଯୋଜନା ପଞ୍ଚାଂତ ଅନ୍ତର୍ଗତ ୧୭ ଶୁଳର କରିଥିଲେ। କମିଟି ସଦସ୍ୟା ବିବିଧ ସାମଳ, ସମ୍ବାଦିତ ଅତିଥି ପ୍ରାଦାନ ଶୀଘ୍ରଯିବ୍ରା ମନ୍ଦିରାଳ୍ଟା ବିଶାଳ, ଆଞ୍ଚଳିକ ସାଧନକେନ୍ତ୍ର ସଂସାଧନ ନାରାୟଣ ବେହେରା ମଞ୍ଚାବାନ ରହି ସମ୍ବାଦକ ରାଜେଶ ପାଳ, ରାଜମଣ୍ଡିଲା ଏହି ମିଳିତାଳ୍ଟା ବିଶାଳ, ଆଞ୍ଚଳିକ ସାଧନକେନ୍ତ୍ର ସଂସାଧନ ନାରାୟଣ ବେହେରା ମଞ୍ଚାବାନ ରହି ପ୍ରତିଯୋଗିତା କରାଯାଇଥିଲା। ଏଥରେ ବନ୍ଦା କୁଷ୍ଟିଆ ବେହେରା ଏହାରୁ ସଂଯୋଜନା ପଞ୍ଚାଂତ ଅନ୍ତର୍ଗତ ୧୭ ଶୁଳର କରିଥିଲେ।

■ ଜଗତନ୍ୟୋତି କୁଳ କ୍ରିକେଟ ଗଡ଼ପଳାଶୁଣୀ ଚାମିଦ୍ଦନ
କାନ୍ଦାଳ, ୧୮/୧୯ (ଡି.ଏନ୍.ଏ.)



ଦେଖାନାଳ ଅଧିକ, ୧୮/୧୯

ଦେଖାନାଳ ସଦର ଥାନା ବେଳିକିର୍ତ୍ତିତ 'କୁଷ୍ଟରହୁର ଲାଗ୍ନିଆ ତ୍ରିମ୍ ସେଷ୍ଟ' ଶେଳଚର ହୋଇରେ ନାବାଲିକା ଅନ୍ତେବାସୀଙ୍କୁ ଯୌନଶୋଷଣ, ଶିଶୁ ନିର୍ଯ୍ୟାତନା

ମାମଳାର ଅନ୍ୟତମ ଗିରପ ଅଭିମୁଦ୍ର ବନ୍ଦା ନାବାଲିକା ଜାମିନ ଆବେଦନ ମଙ୍ଗଳବାର ଖାରଜ ହୋଇଯାଇଛି। ଜାମିନ ଆବେଦନ ବିରୋଧରେ ସମ୍ବନ୍ଧ ପୋକୁ ଅବାଳ ପିଲିକ ପ୍ରସିଦ୍ଧ ସୁଲେମାନ ଖାଁ ମୁକ୍ତ ବାଢ଼ିଥିଲେ। ଏହାପରେ

ବିଚାରପତି କ୍ଷୀରାବ କୁମାର ଦାସ ଜାମିନ ଆବେଦନ ଖାରଜ କରିବାରୁ ଅବଶ୍ୟକ ମଧ୍ୟରେ ପରିବାଦ ଯୋଗୁ ଶେଳଚର ହୋମରେ ଚାଲିଥିବା ଅନ୍ତେକି କାର୍ଯ୍ୟ ପର୍ଯ୍ୟାପ୍ତ ହୋଇଥିଲା।

ଆନ୍ଦୋଳନର ବେଳିକାରୀ ଅନ୍ୟାନ୍ୟ କେତେହିଏ ଏବଂ ସାମାଞ୍ଜଙ୍କ ମଧ୍ୟରେ ପରିବାଦ ଯୋଗୁ ଶେଳଚର ହୋମରେ ଚାଲିଥିବା ଅନ୍ତେକି କାର୍ଯ୍ୟ ପର୍ଯ୍ୟାପ୍ତ ହୋଇଥିଲା।

Mahindra
Rise.

ମହିନ୍ଦ୍ରା ଆୟୋଜନ କରୁଛି

କାକ୍ତି ମେଳା

DATE: 18th to 21st Dec, 2018

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