# સરકારી ઉચ્ચતર માધ્યમિક શાળા (વિ.પ્ર) નિઝર

પ્રકરણ :All કુલ ગુજ :100

# ધોરણ 12 Model Paper

તારીખ : 12/03/22 સમય :3 ક્લાક

General A.

<ol> <li>ZnO ના સ્લેટિકને સરમ કરતા તેતું સૂત્ર</li></ol>	[50]
<ol> <li>અંતાકેન્ડિંત એકમહોપ રચનાની પૈકિંગ લખતા</li></ol>	
(A) 40% (B) 68% (C) 72% (D) 74%  3. Fe <sub>x</sub> O an Fe(II) 제2 એs Fe(III) પરાવે છે, x j પૂલ્ય શું હશે?  (A) 8/9 (B) 2/3 (C) 3/4 (D) 5/3  4. સામાન્ય તાપમાને સોડિયમ પાતુ અંતાકેદિત યનમાં રુદિકીકરસ પાયે છે. એકમ કોંચની પાર α = 4.29 Å છે. સો પરમાજુની વિજય	
3. Fe <sub>2</sub> O બસ Fe(II) માટે એક Fe(III) પરાવે છે, x-j મુલ્ય શું હશે ?  (A) <sup>B</sup> / <sub>9</sub> (B) <sup>2</sup> / <sub>3</sub> (C) <sup>3</sup> / <sub>4</sub> (D) <sup>5</sup> / <sub>3</sub> 4. સામાન્ય તાપમાને સોડિયમ પાતુ અંત:કેન્દ્રિત પનમાં સ્ક્રીટલેકરસ પાયે છે. એકમ કોપની પાર a = 4.29 Å છે. સો પરમાલુની સિલ્લમા	
(A) $\frac{8}{9}$ (B) $\frac{2}{3}$ (C) $\frac{3}{4}$ (D) $\frac{5}{3}$ 4. સામાન્ય તાપમાને સોડિયમ પાતુ અંતાકેન્દ્રિત પત્તમાં સ્ટિકીકરસ પાયે છે. એકમ કોપની પાર $a=4.29 \text{ Å છે.}$ સો પરમાલુની વિજય	
4. સામાન્ય તાપમાને સોડિયમ પશુ અંતાકેન્દ્રિત પનમાં સ્ક્રિટિકીકરસ પામે છે. એકમ કોપની પાર α = 4.29 Å છે. સો પરમાલુની વિજયા	
પરમાલુની ત્રિજ્યા	
(A) 1.40 Å (B) 2.65 Å (C) 1.85 Å (D) 2.15 Å  5. પોટાલ સંલભનું અલુસુત્ર	SPERM.
<ul> <li>5. પોટાશ એલમનું અલુસૂત્ર</li></ul>	
(A) K <sub>2</sub> SO <sub>4</sub> · Al (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (C) K <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> · 24 H <sub>2</sub> O (D) K <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>3</sub> ) <sub>4</sub> · 24 H <sub>2</sub> O (E) K <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) K <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) K <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 24 H <sub>2</sub> O (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) 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<sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) (E) M <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (S	
(C) K <sub>2</sub> SO <sub>4</sub> · Al <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> · 24 H <sub>2</sub> O  6. આપસીલ પટક A અને Bના જલીય કાવલનું સંતુલન સ્થિતિએ કુલ દબાલ 0.02 બાર છે. જે A પટકના મોલઅંસ 0.2 તો પટક Bનું આંક્ષિક દબાલ કેટલું હશે ?  (A) 0.02 બાર (B) 0.04 બાર (C) 0.16 બાર (D) 0.2 બાર 2 × 10 <sup>-6</sup> bar; PCC 2 × 10 <sup>-6</sup> bar; PCC 2 × 10 <sup>-6</sup> bar;  (A) 3 × 10 <sup>-4</sup> (B) 3.32 × 10 <sup>-5</sup> (C) 1.23 × 10 <sup>-4</sup> (D) 2.82 × 10 <sup>-5</sup> 8. MgSO <sub>4</sub> , AgNO <sub>3</sub> અને AlCl <sub>3</sub> ના કાલલમાંથી 1 મોલ ઇલેક્ટ્રોન પસાર કરતાં સુલો આગળ Mg, Ag અને Al નીચેના પૈકી મોલ સુલોત્તરમાં જમા થશે ?  (A) 1 : 1 : 1 (B) 1 : 2 : 3 (C) 2 : 1 : 3 (D) 3 : 6 : 2  9. સાંદ NaCl-τι જલીય કાલલમું ફેકાઇટના સુલો વસ્ત્ર વિદ્યુત્તવિભાજન કરતાં કેલોડ અને એનોડ ઉપર અનુક્રમે શું ઉત્તરના થાય : (A) Cl <sub>2</sub> અને Na (B) H <sub>2</sub> અને O <sub>2</sub> (C) Cl <sub>2</sub> અને H <sub>2</sub> (D) H <sub>2</sub> અને Cl <sub>2</sub> 10. લેડ સંસાલક કોપમાં કવું કાલસ (વિદ્યુતવિભાજન) ભરવામાં આવે છે ?  (A) 30%(w/w) સાંદ H <sub>2</sub> SO <sub>4</sub> (B) 48%(w/w) સાંદ H <sub>2</sub> SO <sub>4</sub> (C) 38%(w/w) સાંદ H <sub>2</sub> SO <sub>4</sub> (D) 38%(w/w) સાંદ HNO <sub>3</sub> 11. હાઇફોજન બળતલ કોપમાં એનોડ પર થતી પ્રક્રિયા કઈ છે ?  (A) 2H <sub>2(g)</sub> + 4OH (aq) → 4H <sub>2</sub> O <sub>(f)</sub> + 4e <sup>-</sup> (B) O <sub>2(g)</sub> + 2H <sub>2</sub> O <sub>(f)</sub> + 4e <sup>-</sup> → 4OH (aq) (C) Pb <sup>2+</sup> + H <sub>2</sub> O <sub>(f)</sub> + ½ O <sub>2(g)</sub> → Pb(OH) <sub>2</sub> + 2e <sup>-</sup> (D) 2H <sub>2(g)</sub> + O <sub>2(g)</sub> → 2H <sub>2</sub> O <sub>(f)</sub> + 571.7KJ	
તો પટક Bનું સાંસિક લ્લાલ કેટલું હશે ?  (A) 0.02 ભાર (B) 0.04 ભાર (C) 0.16 ભાર (D) 0.2 ભાર  7. 298 K તાપમાને CO₂ ના તેના સંતૃપ્ત જલીવ કાવલમાં મોલસંશ કેટલા હશે ? [K <sub>H</sub> = 6.02 × 10 <sup>-4</sup> bar, Pcc 2 × 10 <sup>-4</sup> bar]  (A) 3 × 10 <sup>-4</sup> (B) 3.32 × 10 <sup>-5</sup> (C) 1.23 × 10 <sup>-4</sup> (D) 2.82 × 10 <sup>-5</sup> 8. MgSO₄, AgNO₃ અને AlCl₃ના કાવલમાંથી 1 મોલ ઇલેક્ટ્રોન પસાર કરતાં ફુલો આગળ Mg, Ag અને Al નીચેના પૈકી મોલ સુશોત્તરમાં જમા થશે ?  (A) 1:1:1 (B) 1:2:3 (C) 2:1:3 (D) 3:6:2  9. સાંક NaCl ના જલીય કાવલનું ફોકાઇટના ફુલો વર્લ્ય વિદ્યુતવિભાજન કરતાં કેઘેડ અને એનોડ ઉપર અનુક્રમે શું ઉપન થયા :  (A) Cl₂ અને Na (B) H₂ અને O₂ (C) Cl₂ અને H₂ (D) H₂ અને Cl₂  10. લેડ સંસાલક કોપમાં કહું કાવલ (વિદ્યુતવિભાજન) ભરવામાં આવે છે ?  (A) 30%(w/w) સાંક H₂SO₄ (B) 48%(w/w) સાંક H₂SO₄  (C) 38%(w/w) સાંક H₂SO₄ (D) 38%(w/w) સાંક HNO₃  11. લાઇફોજન ભળતલ કોપમાં એનોડ પર થતી પ્રક્રિયા કઈ છે?  (A) 2H₂(g) + 4OH (aq) → 4H₂O(f) + 4e <sup>-</sup> (B) O₂(g) + 2H₂O(f) + 4e <sup>-</sup> → 4OH <sup>-</sup> (aq)  (C) Pb²* + H₂O(f) + ½O₂(g) → Pb(OH)₂ + 2e <sup>-</sup> (D) 2H₂(g) → 2H₂O(f) + 571.7KJ	
(A) 0.02 બાર (B) 0.04 બાર (C) 0.16 બાર (D) 0.2 બાર 7. 298 K તાપમાને CO₂ ના તેના સંતુષ્ત જશીય કાયલમાં મોલસંસ કેટલા હશે ? [K <sub>H</sub> = 6.02 × 10 <sup>-4</sup> bar, Pcc 2 × 10 <sup>-6</sup> bar] (A) 3 × 10 <sup>-4</sup> (B) 3.32 × 10 <sup>-5</sup> (C) 1.23 × 10 <sup>-4</sup> (D) 2.82 × 10 <sup>-5</sup> 8. MgSO₄, AgNO₃ અને AlCl₃ના કાયલમાંથી 1 મોલ ઇલેક્ટ્રોન પસાર કરતાં કુવો આગળ Mg. Ag અને Al નીચેના પૈકી મોલ સુશોત્તરમાં જમા થશે ? (A) 1:1:1 (B) 1:2:3 (C) 2:1:3 (D) 3:6:2 9. સાંદ NaCl ના જલીય કાયલમું ફોકાઇટના કુવો વર્ષો વિદ્યુત્તવિભાજન કરતાં કેલોડ અને એનોડ ઉપર અનુક્રમે શું ઉત્પન્ન થાય : (A) Cl₂ અને Na (B) H₂ અને O₂ (C) Cl₂ અને H₂ (D) H₂ અને Cl₂ 10. લેડ સંગ્રહ્મક કોપમાં કવું કાયલ (વિદ્યુત્તવિભાજન) ભરવામાં આવે છે ? (A) 30%(w/w) સાંદ H₂SO₄ (B) 48%(w/w) સાંદ H₂SO₄ (C) 38%(w/w) સાંદ H₂SO₄ (D) 38%(w/w) સાંદ HNO₃ 11. લાઇફોજન બળતલ કોપમાં એનોડ પર થતી કહિયા કઈ છે ? (A) 2H₂₂ợ + 4OH (aq) → 4H₂O() + 4e <sup>-</sup> (B) O₂(ợ) + 2H₂O() + 4e <sup>-</sup> → 4OH (aq) (C) Pb²+ H₂O() + ½ O₂(ợ) → Pb(OH)₂ + 2e <sup>-</sup> (D) 2H₂(ợ) → 2H₂O() + 571.7KJ	હોવા,
<ol> <li>298 K તાપમાને CO₂ ના તેના સંતુષ્ત જલીય કાવલમાં મોલસંશ કેટલા હશે ? [K<sub>H</sub> = 6.02 × 10<sup>-4</sup> bar, Pcc 2 × 10<sup>-8</sup> bar]         (A) 3 × 10<sup>-4</sup>         (B) 3.32 × 10<sup>-5</sup>         (C) 1.23 × 10<sup>-4</sup>         (D) 2.82 × 10<sup>-5</sup>         (E) 1.23 × 10<sup>-4</sup>         (D) 2.82 × 10<sup>-5</sup>         (E) 1.23 × 10<sup>-4</sup>         (D) 2.82 × 10<sup>-5</sup>         (E) 1.23 × 10<sup>-4</sup>         (E) 2.82 × 10<sup>-5</sup>         (E) 1.23 × 10<sup>-4</sup>         (E) 2.82 × 10<sup>-5</sup>         (E) 2.82 × 10<sup>-5</sup>         (E) 1.23 × 10<sup>-4</sup>         (D) 3.6 × 20<sup>-4</sup>         (E) 1.11 × 20<sup>-4</sup>         (E) 1.23 × 20<sup>-4</sup>         (E) 2.11 × 20<sup>-4</sup>         (E) 3 × 20<sup>-4</sup>         (E) 4 × 20<sup>-4</sup>         (E) 4 × 20<sup>-4</sup>         (E) 4 × 20<sup>-4</sup>         (E) 4 × 20<sup>-4</sup>         (E) 3 × 20<sup>-4</sup>         (E) 4 × 20<sup>-4</sup></li></ol>	
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<ul> <li>8. MgSO<sub>4</sub>, AgNO<sub>3</sub> અને AlCl<sub>3</sub>ના કાવલમાંથી 1 મોલ ઇલેક્ટ્રોન પસાર કરતાં કુવો આગળ Mg, Ag અને Al નીચેના પૈકી મોલ સુલોત્તરમાં જમા થશે ?</li> <li>(A) 1:1:1 (B) 1:2:3 (C) 2:1:3 (D) 3:6:2</li> <li>9. સાંક NaClના જલીય કાવલનું કોકાઇટના કુવો વચ્ચે વિદ્યુતવિભાજન કરતાં કેશેડ અને એનોડ ઉપર અનુક્રમે શું ઉત્પન્ન શાય : (A) Cl<sub>2</sub> અને Na (B) H<sub>2</sub> અને O<sub>2</sub> (C) Cl<sub>2</sub> અને H<sub>2</sub> (D) H<sub>2</sub> અને Cl<sub>2</sub></li> <li>10. લેડ સંગ્રહક કોપમાં કવું કાવલ (વિદ્યુતવિભાજય) ભરવામાં આવે છે ? (A) 30%(w/w) સાંક H<sub>2</sub>SO<sub>4</sub> (B) 48%(w/w) સાંક H<sub>2</sub>SO<sub>4</sub> (C) 38%(w/w) સાંક H<sub>2</sub>SO<sub>4</sub> (D) 38%(w/w) સાંક HNO<sub>3</sub></li> <li>11. હાઇડ્રોજન બળતલ કોપમાં એનોડ પર થતી પ્રક્રિયા કઈ છે ? (A) 2H<sub>2(g)</sub> + 4OH<sub>(aq)</sub> → 4H<sub>2</sub>O<sub>(f)</sub> + 4e<sup>-</sup> (B) O<sub>2(g)</sub> + 2H<sub>2</sub>O<sub>(f)</sub> + 4e<sup>-</sup> → 4OH<sub>(aq)</sub> (C) Pb<sup>2+</sup> + H<sub>2</sub>O<sub>(f)</sub> + ½ O<sub>2(g)</sub> → Pb(OH)<sub>2</sub> + 2e<sup>-</sup> (D) 2H<sub>2(g)</sub> + O<sub>2(g)</sub> → 2H<sub>2</sub>O<sub>(f)</sub> + 571.7KJ</li> </ul>	
મોલ સુલોનરમાં જમા થશે ? $ (A) \ 1:1:1 \qquad (B) \ 1:2:3 \qquad (C) \ 2:1:3 \qquad (D) \ 3:6:2 $ 9. સાંક NaCl-મા જલીય કાવલનું ફોકાઇટના કુવો વર્ષ્ય વિદ્યુતવિભાજન કરતાં કેલોડ અને એનોડ ઉપર અનુક્રમે શું ઉત્પન્ન થાય : $ (A) \ Cl_2 \ \text{ અને Na} \qquad (B) \ H_2 \ \text{ અને } O_2 \qquad (C) \ Cl_2 \ \text{ અને } H_2 \qquad (D) \ H_2 \ \text{ અને } Cl_2 $ 10. લેડ સંસાતક કોપમાં કવું કાવલ (વિદ્યુતવિભાજય) ભરવામાં આવે છે ? $ (A) \ 30\% (\text{w/w}) \ \text{ ais } H_2 \text{SO}_4 \qquad (B) \ 48\% (\text{w/w}) \ \text{ ais } H_2 \text{SO}_4 $ $ (C) \ 38\% (\text{w/w}) \ \text{ ais } H_2 \text{SO}_4 \qquad (D) \ 38\% (\text{w/w}) \ \text{ ais } HNO_3 $ 11. લાઇફોજન બળતલ કોપમાં એનોડ પર થતી પ્રક્રિયા કઈ છે ? $ (A) \ 2H_{2(g)} + 4OH_{(aq)} \rightarrow 4H_2O_{(f)} + 4e^- \qquad (B) \ O_{2(g)} + 2H_2O_{(f)} + 4e^- \rightarrow 4OH_{(aq)} $ $ (C) \ Pb^{2+} + H_2O_{(f)} + \frac{1}{2}O_{2(g)} \rightarrow Pb(OH)_2 + 2e^- \qquad (D) \ 2H_{2(g)} + O_{2(g)} \rightarrow 2H_2O_{(f)} + 571.7 \text{KJ} $	
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9. સાંક NaCl ના જલીય કાવલનું ફોકાઇટના કુવો વર્ષ્ય વિદ્યુતવિભાજન કરતાં કેલોડ અને એનોડ ઉપર અનુકચે શું ઉત્પન્ન થાય ક (A) Cl <sub>2</sub> અને Na (B) H <sub>2</sub> અને O <sub>2</sub> (C) Cl <sub>2</sub> અને H <sub>2</sub> (D) H <sub>2</sub> અને Cl <sub>2</sub> (A) ડાં કાંગ્રહક કોપમાં કવું કાવલ (વિદ્યુતવિભાજય) ભરવામાં આવે છે ? (A) 30%(w/w) સાંક H <sub>2</sub> SO <sub>4</sub> (B) $48\%(w/w)$ સાંક H <sub>2</sub> SO <sub>4</sub> (C) $38\%(w/w)$ સાંક H <sub>2</sub> SO <sub>4</sub> (D) $38\%(w/w)$ સાંક HNO <sub>3</sub> (D) $38\%(w/w)$ સાંક HNO <sub>3</sub> (D) $2H_{2(g)} + 4OH_{(aq)}^- \rightarrow 4H_2O_{(f)} + 4e^-$ (B) $O_{2(g)} + 2H_2O_{(f)} + 4e^- \rightarrow 4OH_{(aq)}^-$ (C) $Pb^{2+} + H_2O_{(f)} + \frac{1}{2}O_{2(g)} \rightarrow Pb(OH)_2 + 2e^-$ (D) $2H_{2(g)} + O_{2(g)} \rightarrow 2H_2O_{(f)} + 571.7$ KJ	
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<ol> <li>સામાન્ય રીતે રાસાયભિક પ્રક્રિયાનો વેગ બમલો કરવા માટે તાપમાનમાં 10°નો વધારો કરાય છે. જો પ્રક્રિયાના તાપમ</li> </ol>	નમાં

ભાગના તો પડેગા જિંદગી દો ચોઈસ દેતી તે 5 સાલ ભાગો યા 50 સાલ ચોઈસ આપકી??

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