

Master Math for JEE Main & JEE Advanced

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For JEE Main 2020 April



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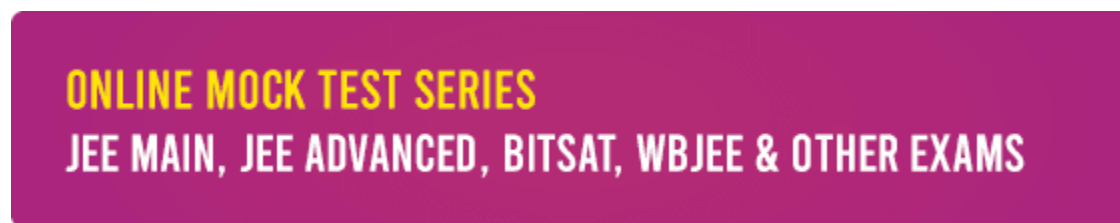
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JEE Mains 2020 Jan Chapter wise Question Bank

Periodic Table and Periodicity

Q1

Correct order of electron gain enthalpy (kJ/mole) of F, Cl, Br, I

F, Cl, Br, I की इलेक्ट्रॉन ग्रहण एन्थैल्पी (kJ/मोल) का सही क्रम है ?

- (1) -296, - 325, - 333, - 349
(2) -333, - 349, - 325, -296
(3) -349, - 333, - 325, - 296
(4) -325, - 333, - 349, - 296

7th Jan Morning

Sol

(2)

Q2

Atomic radius of Ag is similar to

Ag की परमाणु त्रिज्या किसके समान होती है ?

- (1) Cu (2) Hg (3) Au (4) Ni

7th Jan Morning

Sol

(3)

Q3

Which one of the following amongs each pair will release maximum energy on gaining one electron

(A = F, Cl), (B = S, Se), (C = Li, Na)

प्रत्येक युग्म में निम्न में से कौनसा एक इलेक्ट्रॉन ग्रहण करके अधिकतम ऊर्जा निष्कासित करेगा ?

(A = F, Cl), (B = S, Se), (C = Li, Na)

- (1) (A) = Cl, (B) = S, (C) = Li (2) (A) = F, (B) = Se, (C) = Li
(3) (A) = F, (B) = Se, (C) = Na (4) (A) = Cl, (B) = S, (C) = Na

7th Jan Evening

Sol

(1)

Theory based

Q4

Correct order of first ionization energy of the following metals Na, Mg, Al, Si in KJ mol^{-1} respectively are:

निम्न धातुओं Na, Mg, Al, Si की प्रथम आयनन ऊर्जाओं (KJ mol^{-1} में) का सही क्रम क्रमशः है—

(1) 497, 737, 577, 786

(2) 497, 577, 737, 786

(3) 786, 739, 577, 497

(4) 739, 577, 786, 487

8th Jan Morning

Sol

(1)

Q5

Amongs the following which will show geometrical isomerism.

निम्न में से कौन ज्यामितिय समावयवता दर्शायेगा?

(a) $[\text{Ni}(\text{NH}_3)_5\text{Cl}]^+$

(b) $[\text{Ni}(\text{NH}_3)_4\text{ClBr}]$

(c) $[\text{Ni}(\text{NH}_3)_3\text{Cl}]^+$

(d) $[\text{Ni}(\text{NH}_3)_2(\text{NO}_2)_2]$

(1) b, d

(2) a, b

(3) a, b & c

(4) a, b, c & d

8th Jan Evening

Sol

(1)

Ma_4bc can show 2 G.I.

Ma_2b_2 can show 2 G.I.

(Square planar)

Ma_4bc , 2 G.I. दर्शा सकता है।

Ma_2b_2 , 2 G.I. दर्शा सकता है।

(वर्ग समतलीय)



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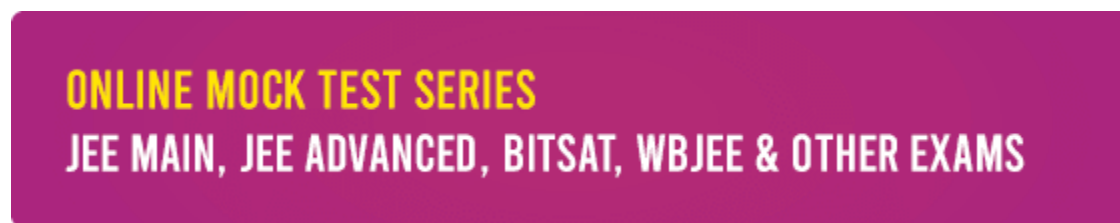
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