

In pitting corrosion, PIT act as a

- ☒ Anode
- ☐ Cathode
- ☐ Electrolyte
- ☐ None of the above
- ☐ Other: \_\_\_\_\_

Clear selection

How many grams of  $\text{FeSO}_4$  dissolved per liter gives 300 ppm of hardness?(Fe = 56, S = 32, O = 16, Ca = 40, C = 12)

- ☒ 0.456 g/l
- ☐ 0.546 g/l
- ☐ 1.54 g/l
- ☐ none of the above

Clear selection

According to the galvanic series which of the metal couple will undergo most faster rate of corrosion

- ☐ Mg-Zn
- ☐ Mg - Sn
- ☐ Mg - Cu
- ☐ Ti-Mg
- ☒ Other: Mg-Ti

Clear selection

Which of the following metal corrode continuously in open air?

- ☐ Aluminium
- ☒ Molybdenum
- ☐ Platinum
- ☐ Lead
- ☐ Other: \_\_\_\_\_

Clear selection

0.28g of  $\text{CaCO}_3$  was dissolved in HCl and the solution was made to one litre With distilled water. 100 mL of the above solution required 28 mL of EDTA solution on Titration. 100 mL of the hard water sample required 35 mL of the same EDTA solution On titration. After boiling 100 mL of this water, cooling, filtering and titration required 10 mL of EDTA solution. What is the temporary hardness of the water

- ☒ 250ppm
- ☐ 100 ppm
- ☐ 350ppm
- ☐ 150 ppm

Clear selection

The process of depositing a noble metal on a less noble metal in the presence of a reducing agent without the use of electric current is

- ☐ Electroplating
- ☒ Electroless plating
- ☐ Electrical plating
- ☐ None of the above

Clear selection

Which of the following is not a technique for surface preparation

- ☐ Solvent cleaning
- ☐ Pickling and etching
- ☒ Spraying
- ☐ Mechanical cleaning

Clear selection

Which of the following statement/s is correct for the following pairs A) Aluminum and cast iron B) Cadmium and Zinc

- ☐ For both A and B, corrosion will not occur
- ☐ For only A corrosion will occur and Aluminum will corrode
- ☐ Both A and B, corrosion will occur. For A, aluminum will corrode and for B, cadmium will corrode
- ☒ none of the above

Clear selection

A zeolite softner was used to eliminate the hardness of 10,000 litres of water sample. For regeneration, the zeolite softrener required 200 litres of sodium chloride solution containing 150 gm/liter NaCl. what is the hardness of the sample water?

- ☒ 2564 ppm
- ☐ 1250 ppm
- ☐ 2650 pp
- ☐ 1150 ppm

Clear selection

Which of the following is not an example/s of differential aeration corrosion

- ☐ Pitting corrosion
- ☐ Galvanic corrosion
- ☒ Waterline corrosion
- ☐ none of the above

Clear selection