Assignment 4

The due date for submitting this assignment has passed.

Due on 2021-02-17, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which of the following is/are correct?
   - Anodic protection is used in alloy/corrosive medium showing spontaneous passivity
   - Anodic protection is used in alloy/corrosive medium showing active and passive system
   - Anodic protection is used for active system only

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Anodic protection alloy/corrosive medium showing active and passive system

2) Which of the following is/are very appropriate with respect to anodic protection?
   - Current required is less
   - Potential is used
   - Can make the metal immune to corrosion
   - Rectifier is used

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Current required is less
   - Potential is used
   - Can make the metal immune to corrosion
   - Rectifier is used

3) In a company, the produced sulfuric acid consisted of 100 ppm of chlorides. What will be the right choice of protection of sulfuric acid storage tank?
   - Cathodic protection
   - Anodic protection
   - Bakelite coating
   - None of the listed are suitable

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Bakelite coating

4) Which of the following is/are correct?
   - $L_{30}=pH=5$
   - $L_{30}=pH=2-3$
   - $R_{30}=2-3-4-5$
   - $R_{30}=pH=5$

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - $L_{30}=pH=5$
   - $R_{30}=pH=5$

5) What is the ratio of the T/R unit?
   - It is Regulation of DC output.
   - It is A.C. content in the DC output of the Rectifier unit.
   - It is a measure of efficiency of T/R unit.
   - It is a measure of quality of AC supply to T/R unit

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - It is A.C. content in the DC output of the Rectifier unit.

6) Internal pipeline corrosion is controlled by
   - The pH stabilization, oxygen and water removal
   - Adding corrosion inhibitors
   - Addition of bicarbonates to suppress MC
   - Keep pipelines free from water accumulation
   - Periodic pigging of pipelines

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - The pH stabilization, oxygen and water removal
   - Adding corrosion inhibitors
   - Addition of bicarbonates to suppress MC
   - Keep pipelines free from water accumulation
   - Periodic pigging of pipelines

7) Generally, which of coatings is/are used in the extruded tapes?
   - Polyethylene asphalt/butyl adhesive with cathodic protection (CP) shielding
   - Multilayer epoxy/polyolefins
   - Polyethylene + glass flakes
   - Polyethylene asphalt/butyl adhesive without cathodic protection (CP) shielding

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Polyethylene asphalt/butyl adhesive with cathodic protection (CP) shielding
   - Multilayer epoxy/polyolefins

8) Which of the following conditions is responsible for the formation of mackinawite which is responsible for lowering the corrosion in H/S environment?
   - Very low levels of $H_2S$ (c/d) paid, at 60°C and above $CO_2$ is the dominant corrosive species,
   - High levels of $CO_2$: $H_2S=200$
   - High levels of $CO_2$: $H_2S=200$, below 120°C
   - High levels of $CO_2$: $H_2S<100$

   No. the answer is incorrect.
   Score: 0
   Accepted Answers:
   - High levels of $CO_2$: $H_2S<100$, below 120°C