



PRESIDENCY UNIVERSITY,  
BENGALURU

SCHOOL OF ENGINEERING

TEST 2

Odd Semester: 2018-19

Course Code: PET 405

Course Name: Petroleum Corrosion Technology

Branch & Sem: (Open Elective) & VII Sem Group - I

Date: 28 November 2018

Time: 1 Hour

Max Marks: 20

Weightage: 20%

**Instructions:**

- (i) Read the question properly and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and Non-programmable calculators are permitted.

**Part A**

Answer **all** the Questions. **Each** question carries **two** marks. (2x2=4)

1. Name different types of microstructure of steels.
2. What is Annealing?

**Part B**

Answer **all** the Questions. **Each** question carries **four** marks. (2x4=8)

3. What is heat treatment of steels? Explain the four processes in brief.
4. What are alloys? Explain different types of alloys.

**Part C**

Answer the Question. Question carries **eight** marks. (1x8=8)

5. Write about the significance of protective coatings for oil and gas industries. Explain about different types of coatings based on service environment and coating thickness.



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**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING**

**END TERM FINAL EXAMINATION**

**Odd Semester:** 2018-19

**Course Code:** PET 405

**Course Name:** Petroleum Corrosion Technology

**Programme & Sem:** VII Sem (Open Elective)

**Date:** 29 December 2018

**Time:** 2 Hours

**Max Marks:** 40

**Weightage:** 40%

**Instructions:**

- (i) Read the question properly and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and Non-programmable calculators are permitted.

**Part A**

Answer **both** the Questions. **Each** question carries **five** marks. (2Qx5M=10)

1. Explain coating materials that should persist to provide protection against corrosion.
2. How corrosion measurements used to be done. Name some methods of corrosion monitoring.

**Part B**

Answer **both** the Questions. **Each** question carries **ten** marks. (2Qx10M=20)

3. Write in brief about different methods for the detection and monitoring of internal corrosion.
4. Explain hydrogen probe with examples.

**Part C**

Answer the Question. Question carries **ten** marks. (1Qx10M=10)

5. Write the protective coating applications used in oil and gas industries. Explain about the different categories of chemical composition. Discuss various coating systems with a neat diagram.