



**PRESIDENCY UNIVERSITY,
BENGALURU**

SCHOOL OF ENGINEERING

TEST 2 Q-2

Odd Semester: 2018-19

Course Code: PET 303

Course Name: Pipeline Engineering

Branch & Sem: PET (Discipline 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.

(3x2=06)

1. Write the names of Four types of Valves. [2]
2. Write the function of Gaskets? When Metallic Gaskets are used? [1+1]
3. Write the names of few methods to protect metals from Corrosion. [2]

Part B

Answer **all** the Questions.

(2Q=6)

4. Describe Delayed Cracking associated with Welding? [2]
5. Describe with diagram Gas Tungsten Arc Welding (TIG).
Write two Advantages and one Disadvantages of TIG method. [4]

Part C

Answer the Question. Question carries **eight** marks

(1x8=8)

6. a. What is used to prevent Hydrogen Cracking in Welding? [2]
- b. What do you understand by Mechanical Joints? . [2]
- c. Write the names of Filler Material used in Welding. [2]
- d Describe the Process of Galvanic Corrosion. [2]



Roll No.																			
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF ENGINEERING

END TERM FINAL EXAMINATION

Odd Semester: 2018-19

Course Code: PET 303

Course Name: Pipeline Engineering

Programme & Sem: PET & VII Sem (Discipline Elective)

Date: 28 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

Part A

Answer **all** the Questions. **Each** question carries **two** marks. (3Qx2M=06)

1. a. What is Failure Analysis? [2]
- b. What is Reactive Maintenance? [2]
- c. Write two components of Proactive Maintenance. [2]

Part B

Answer **both** the Questions. **Each** question carries **six** marks. (2Qx6M=12)

2. Discuss briefly with diagram Liquid Penetrating Testing method of Examination. [6]
3. a. Why Hydrostatic Tests are performed? [2]
- b. Write briefly methods of locating underground Leaks. [4]

Part C

Answer **all** the Questions. (3Q=22)

4. Write the different Techno-Economic considerations before laying Pipelines. [8]
5. a. Write three main purposes of Pigging Operations. [3]
- b. Write the functions of Smart Pigs. [5]
6. Compare with diagram between Arc welding and Laser welding and Hybrid welding. [6]