PRESIDENCY UNIVERSITY
BENGALURU

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

SCHOOL OF ENGINEERING

TEST 2

Odd Semester: 2018-19

Course Code: PET 216

Course Name: Enhanced Oil Recovery

Branch & Sem: PET & VII Sem Group-1

Date: 24 November 2018

Time: 1 Hour

Max Marks: 20

Weightage: 20%

Instructions:

(i)   All parts of the question paper are compulsory to answer

Part A

Answer the Question. Question carries **six** marks.   (1x6=6)

1. (a) Define polymer?   (1 M)

   (b) Draw a schematic diagram of an emulsion polymer field mixing system?   (5 M)

Part B

Answer the Question. Question carries **six** marks.   (1x6=6)

2. Elucidate the effect of salt concentration on IFT

Part C

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

3. What are the major requirements and considerations for a suitable alkaline flooding
   (Reservoir Characteristics)?

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END TERM FINAL EXAMINATION

Odd Semester: 2018-19   **Date**: 26 December 2018

Course Code: PET 216   **Time**: 2 Hours

Course Name: Enhanced Oil Recovery   **Max Marks**: 40

Programme & Sem: PET & VII Sem (Group-1)   **Weightage**: 40%

Instructions:
(i) *Read the questions properly and answer accordingly*

Part A

Answer **all** the Questions. **Each** question carries **three** marks.   (4Qx3M=12)

1. What are the three reasons to study about the specific microorganisms in EOR process?
2. Differentiate between forward combustion and reversion combustion.
3. What are the reasons in selecting a shallow depth for Steam Flooding injection process?
4. List out the three categories of lifting problems for heavy crudes.

Part B

Answer **all** the Questions. **Each** question carries **six** marks.   (3Qx6M=18)

5. What are the federal legislations that affect the EOR operation requirements?
6. Write the formula for Ignition time and mention the terms with its units.
7. Illustrate the parameters required for process of Steam Flooding (SF).

Part C

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

8. Briefly explain about the Evaluation of continuous carbon/oxygen (C/O) logging using any five applications with the help of general remarks/constraints and field experience/observations.