



PRESIDENCY UNIVERSITY,
BENGALURU

SCHOOL OF ENGINEERING

TEST 2

Odd Semester: 2018-19

Course Code: PET 302

Course Name: Offshore Engineering Technology

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 not permitted.

Part A

Answer **all** the Questions. **Each** question carries **two** marks. (2x2=04)

1. What does FPSO stands for? How does FPSO differ from FPS.
2. What does MODU Stand for? List two MODU's.

Part B

Answer **all** the Questions. **Each** question carries **three** marks. (2x3=06)

3. Draw any three offshore floating production units.
4. What does IACS stands for? What is the Role of IACS. List any two societies under IACS.

Part C

Answer **all** the Questions. Each question carries **five** marks. (2x5=10)

5. Describe SPAR Platforms with its types.
6. How deck loads are supported in Fixed platforms and in Floating structures? Write a short note on Drill Ships.



Roll No.

**PRESIDENCY UNIVERSITY
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SCHOOL OF ENGINEERING

END TERM FINAL EXAMINATION

Odd Semester: 2018-19

Course Code: PET 302

Course Name: Offshore Engineering Technology

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 **three** marks. (4Qx3M=12)

1. What are neutrally buoyant structures? Give Examples. How do they attain stability?
2. What is mooring buoy? What is its function?
3. What are the two common wire rope constructions? Mention their properties.
4. What is the difference between right hand regular lay and right hand lang's ray?

Part B

Answer **both** the Questions. **Each** question carries **four** marks. (2Qx4M=08)

5. What are the types of turret mooring? Draw diagram of each.
6. a) Mention the advantages and disadvantages of wire ropes.
b) What is Drag embedment anchor?

Part C

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

7. What is dynamic positioning? Explain the reference system of DPS.
8. Explain the field development parameter with neat diagram.