



ROLL NO:

PRESIDENCY UNIVERSITY, BENGALURU
SCHOOL OF ENGINEERING

Weightage: 20 %

Max Marks: 20

Max Time: 1 hr.

Monday, 24th September, 2018

TEST – 1

Odd Semester 2018-19

Course: **PET 218 Petroleum Geology**

III Sem. Petroleum

Instruction:

- (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

(3 Q x 2 M = 6 Marks)

1. Arrange first six planets in respect of increasing distance from the Sun.
2. List constituents include in the atmospheric composition of Troposphere.
3. Describe (a) Tectonic Earthquake, and (b) Non-tectonic Earthquake.

Part B

(2 Q x 3 M = 6 Marks)

4. Explain 'Bi-parental Origin Theory'.
5. Discuss (a) Conrad Discontinuity, (b) Mohorovicic Discontinuity, and (c) Wiechert-Guttenberg Discontinuity.

Part C

(2 Q x 4 M = 8 Marks)

6. Distinguish between 'Weathering' and 'Erosion'.
7. Explain (a) Fissure Eruption, and (b) Central Eruption with appropriate figures.



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TEST 2

Odd Semester: 2018-19

Course Code: PET 218

Course Name: Petroleum Geology

Branch & Sem: PET & III Sem

Date: 27 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=6)

1. Define 'Antecedent River' with suitable example.
2. List the common methods used to identify minerals.
3. Describe (a) Floodplain, and (b) Natural levee.

Part B

Answer **all** the Questions. **Each** question carries **three** marks. (2x3=6)

4. Explain 'Formation of Angular Unconformity' with suitable diagram.
5. Explain essential elements and processes of Petroleum System.

Part C

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

6. Explain (a) 'Oil Window' and (b) role of temperature gradient in hydrocarbon generation.
7. Explain the purpose of using Maturity Indicators.



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END TERM FINAL EXAMINATION

Odd Semester: 2018-19

Course Code: PET 218

Course Name: Petroleum Geology

Programme & Sem: PET & III Sem

Date: 27 December 2018

Time: 2 Hours

Max Marks: 40

Weightage: 40%

Instructions:

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

Part A

Answer **all** the Questions. **Each** question carries **four** marks.

(3Qx4M=12)

1. What are the factors that control effectiveness of cap rocks?
2. What is 'Migration Losses'? Is it play any significant role in oil industry?
3. Define fossil. Explain 'Mode of Preservation' of fossils.

Part B

Answer **all** the Questions. **Each** question carries **six** marks.

(2Qx6M=12)

4. Which are the reservoir properties determined with the help of wire-line data?
5. What is the difference between "Conventional" and "Unconventional" Natural Gas?

Part C

Answer **all** the Questions. **Each** question carries **eight** marks.

(2Qx8M=16)

6. Explain four types of hydrocarbon traps with suitable diagrams and also mention the reasons behind formation of those traps.
7. (a) Explain 'Wilson Cycle'.
(b) How the sedimentary basins are categorized based on prospectivity?