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**PRESIDENCY UNIVERSITY, BENGALURU**  
**SCHOOL OF ENGINEERING**

Max Marks: 80

Max Time: 120 Mins

Weightage: 40 %

**ENDTERM FINAL EXAMINATION**

I Semester AY 2017-18

Course: **PET 201 APPLIED GEOLOGY**

18 DECEM 2017

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**Instructions:**

- i. Write legibly
  - ii. Scientific and non programmable calculators are permitted
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**Part A**

**[5 Q x 8 M = 40 Marks]**

1. Explain oil window and role of temperature and pressure in hydrocarbon generation.
2. What do you mean by Reservoir Rocks? Explain the classification of reservoir rocks.
3. What is the difference between conventional and unconventional reservoirs?
4. Briefly discuss the factors affect the effectiveness of cap rock.
5. Discuss role of palynology in hydrocarbon exploration.

**Part B**

**[2 Q x 10 M = 20 Marks]**

6. Explain the term porosity. What do you mean by primary porosity, secondary porosity and effective porosity?
7. Describe classification of traps and their formation with suitable diagrams.

**Part C**

**[2 Q x 10 M = 20 Marks]**

8. Explain importance of Diagenesis, Catagenesis and Metagenesis processes for source rock formation.
9. Write short notes on (a) Spill Point and (b) Tilted Oil Water Contact with suitable diagram.



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**SCHOOL OF ENGINEERING**

Max Marks: 40

Max Time: 60 Mins

Weightage: 20 %

**TEST 2**

I Semester 2017-2018

Course: **PET 201 Applied Geology**

23 OCT 2017

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**Instructions:**

- i. Write legibly
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**Part A**

(3 Q x 4 M = 12 Marks)

1. List any four depositional features created due to ocean / sea action.
2. List any four erosional features created due to glacier action.
3. Name four common methods used to identify minerals.

**Part B**

(2 Q x 6 M = 12 Marks)

4. Explain 'Rock Cycle' with suitable diagram.
5. Briefly describe the followings:
  - (a) Physical Map
  - (b) Political Map
  - (c) Thematic Map

**Part C**

(2 Q x 8 M = 16 Marks)

6. Write any four criteria used in the field to recognize 'Folds'.
7. Briefly discuss the followings with suitable diagrams.
  - (a) Nonconformity
  - (b) Angular Unconformity



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**SCHOOL OF ENGINEERING**

Max Marks: 40

Max Time: 60 Mins

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**TEST 1**

I Semester 2017-2018 Course: **PET 201 Applied Geology**

16 SEPT 2017

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**Instructions:**

- i. Write legibly
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**Part A**

(2 Q x 6 M = 12 Marks)

1. List out different erosional features created due to wind action.
2. Classify earthquakes based on their depth of occurrence.

**Part B**

(2 Q x 8 M = 16 Marks)

3. Write short note on 'Envelopes of the Earth'.
4. Explain formation of 'Horse-shoe Lake' with suitable diagram.

**Part C**

(1 Q x 12 M = 12 Marks)

5. Write short note on 'Tectonic Plate Boundaries' with proper diagrams.