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**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING**

**SUMMER TERM / MAKE UP FINAL EXAMINATION**

**Semester:** Summer Term 2019

**Date:** 27 July 2019

**Course Code:** PET 219

**Time:** 2 Hours

**Course Name:** Hydrocarbon Exploration

**Max Marks:** 80

**Programme & Sem:** B.Tech (PET) & III Sem (2017 Batch)

**Weightage:** 40%

**Instructions:**

(i) *All questions are compulsory*

**Part A**

Answer **both** the Questions. **Each** question carries **four** marks. (2Qx4M=8)

1. What is the difference in spread arrangement between 2D and 3D seismic survey?
2. How are diurnal corrections applicable in aeromagnetic survey?

**Part B**

Answer the Questions. **Each** sub question carries **eight** marks. (4Qx8M=32)

3. Write short notes on:
  - i. Seismic processing (8M)
  - ii. Seismic sources on land (8M)
  - iii. Proton Magnetometer (8M)
  - iv. 3D Seismic survey (8M)

**Part C**

Answer **both** the Questions. **Each** question carries **twenty** marks. (2Qx20M=40)

4. What is Vertical Seismic Profiling? What are its advantages over conventional surface seismic survey? What are its different acquisition methods?
5. Describe the different arrival times of the three types of waves in a seismic survey and how they are relevant to seismic interpretation.

