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PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING

SUMMER TERM/ MAKE UP END TERM EXAMINATION

Semester: Summer Term 2019

Date: 24 July 2019

Course Code: PET 207

Time: 2 Hour

Course Name: Oil and Gas Exploration

Max Marks: 80

Program & Sem: B.Tech (PET) & IV Sem (2016 Batch)

Weightage: 40%

Instructions:

(i) Answer all the questions

Part A

Answer both the Questions. Each question carries ten marks.

(3Qx10M=30M)

- Why is Geophysical survey important for oil and gas exploration? Discuss briefly the Oil and Gas Exploration Scenario with Indian Context.
 [3 + 7]
- 2. What are the different types of seismic waves? Which is the wave used for Seismic Survey? Explain reason. [3 + 7]
- 3. Explain the principles used in Fluxgate magnetometer and Proton magnetometer.

[5+5]

Part B

Answer both Questions. Each question carries fifteen marks.

(2Qx15M=30M)

- 4. Briefly explain the different components of Petroleum system with neat diagram.
- 5. What are the different anomalies need to be taken care during magnetic survey for oil and gas exploration? Explain with appropriate diagram.

Part C

Answer the Question. The question carries twenty mark.

(1QX20M=20M)

- 6. (a) List at least four Geophysical exploration methods used in oil industry.
 - (b) Which is the method most suitable for oil and gas exploration? Justify your answer.
 - (c) Discuss the principles of instruments used for seismic survey?

(4 + 8 + 8)

