



ID NO.	
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PRESIDENCY UNIVERSITY, BENGALURU
SCHOOL OF ENGINEERING

Weightage: 40 %

Max Marks: 40

Max Time: 2 hrs.

9 May 2018, Wednesday

ENDTERM FINAL EXAMINATION MAY 2018

Even Semester 2017-18 Course: **PET 207 Oil and Gas Exploration** IV Sem. Petroleum

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

(3 Q x 4 M = 12 Marks)

1. Explain how primary electromagnetic field travels from the transmitter coil to the receiver coil with suitable diagram.
2. Briefly discuss the 'Limitations of Electromagnetic Surveying'.
3. Discuss 'Attenuation of Seismic Energy along ray paths' with suitable diagram.

Part B

(3 Q x 6 M = 18 Marks)

4. Explain 'Fixed Separation Systems' of airborne electromagnetic surveying with suitable diagram.
5. Explain the relationship between 'Seismic wave velocity and density of rock' with suitable diagram.
6. List the 'Applications of Seismic Reflection Surveying' in Oil and Gas industry.

Part C

(1 Q x 10 M = 10 Marks)

7. Explain 'CMP gather in seismic processing' with suitable diagrams.



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Max Marks: 20

Max Time: 1 hr.

27 March Tuesday 2018

TEST – 2

SET B

Even Semester 2017-18 Course: **PET 207 Oil and Gas Exploration**

IV Sem. Petroleum

Instruction:

- (i) Read the questions properly and answer accordingly
 - (ii) Answer all questions
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Part A

(2 Q x 2 M = 4 Marks)

1. Mention at least four applications of Magnetic Survey.
2. Briefly discuss 'Ground Magnetic Survey' method.

Part B

(2 Q x 4 M = 8 Marks)

3. Explain working principle of 'Fluxgate Magnetometer'.
4. Briefly discuss about 'Optically Pumped Magnetometer'.

Part C

(1 Q x 8 M = 8 Marks)

5. Explain (a) 'Diurnal Variation Correction' and (b) 'Geomagnetic Correction'. [4 + 4]



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Max Time: 1 hr.

22 Feb Thursday 2018

TEST – 1

Even Semester 2017-18 Course: **PET 207 Oil and Gas Exploration**

IV Sem. Petroleum

Instruction:

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

(3 Q x 2 M = 6 Marks)

1. Explain 'Prospect' and 'Play'.
2. Mention at least 4 advantages of geophysical studies.
3. Explain 'Drift Correction' of Gravity Survey with appropriate figure.

Part B

(2 Q x 4 M = 8 Marks)

4. Explain 'Latitude Correction' of Gravity Survey with appropriate figure.
5. Mention at least 4 applications of Gravity Survey.

Part C

(1 Q x 6 M = 6 Marks)

6. Explain principle of stable gravimeter operation with appropriate figure.