

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 2289534

Roll No.

B.TECH.

Regular Theory Examination (Odd Sem - V), 2016-17

SEISMIC DATA INTERPRETATION

Time : 3 Hours

Max. Marks : 100

Section - A

- 1 Attempt all questions. (10×2=20)
- Define Seismicity.
 - Synthetic Seismograms
 - Define digital image processing.
 - What are ISO time interval maps?
 - What do you understand by the term DHI?
 - Define Fault.
 - In Interpretation Techniques IIWS stands for?
 - Define Sedimentational Interpretation.
 - Define Types of Seismic Waves.
 - Define Dim Spot.

Section - B

2. Attempt any five questions (5×10=50)
- Describe Seismicity and its Role in petroleum Engineering.

- Describe the term-integration of Seismic data with well Data.
- Describe Seismic Resolution.
- Define Seismic Attributes and their application in reservoir characterization.
- Describe reflection pattern and sedimentational interpretation.
- Describe Reconstruction of geological history.
- Brief note on Pitfalls in Seismic Interpretation.
- Role of Tuning Phenomenon in seismic data interpretation.

Section - C

Attempt any two questions

(2×15=30)

- Role of Seismic Data Interpretation in petroleum engineering. Describe identification of fault and marking fault pattern.
- Describe various techniques used in Seismic Data Interpretation.
- How you can identify probable Lithology using Seismic Velocities and Reflection Character?

