*ENM500 Petroleum Geoscience – Tutorial 3*

1. *Define geophysics; explain the two broad divisions of geophysics*
2. *State the types of data that are typically acquired during geophysical evaluation*
3. *Discuss the broad divisions of geophysical methods or techniques.*
4. *Describe the physical properties of the earth/rock that are usually measured in geophysical survey*
5. *Classify geophysical techniques into passive and active methods*
6. *Give examples of magnetic minerals/rocks*
7. *How can you determine the earth’s magnetic field*
8. *Acid rocks are usually less magnetic than basic rock. Discuss*
9. *Magnetic property reduces with grade of metamorphism. Discuss*
10. *Describe magnetic anomalies.*
11. *Mention some magnetic survey equipment*
12. *Describe the physical property of the earth that is utilised in gravity survey*
13. *Give examples of geological structures that can give rise to gravity anomalies*
14. *Describe how gravity is measured*
15. *What is seismic survey and how is it carried out?*
16. *Describe the two types of seismic waves*
17. *How is the concept of stress and strain related to gravity measurement*
18. *Give some examples of sources of seismic energy*
19. *Name the seismic energy detectors for land and marine environments*
20. *Differentiate between reflection and refraction seismic*