

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, April/ May 2018

Programme: B. Plan, School of Planning & Architecture

Semester – II

Course Name: Applied Geology and Hydrology

Max. Marks : 100

Course Code: BPLC151

Duration: 2Hrs

No. of page/s: 1

SECTION-A (5×4= 20 Marks)

Attempt all questions

- 1) What is the difference between unconfined aquifer and confined aquifer?
- 2) What are Seismic Waves? Explain all types of seismic waves.
- 3) What is meant by recumbent fold? Draw a neat diagram.
- 4) What is hydrological cycle? Explain with a neat diagram
- 5) Differentiate between deep and shallow foundation.

SECTION-B (4×10= 40 Marks)

Attempt all questions

- 6) What do you mean by mechanical weathering .Explain its different causes.
- 7) What are the different sources of groundwater ? Explain.
- 8) Write a note on faults their causes, types and effects on the engineering quality of rocks
- 9) Enumerate with on the causes, types of landslide and their preventive measures.

SECTION-C (2×20=40 Marks)

Attempt all questions

- 10) Explain fluvial deposition and erosion giving the account of landform features formed due to them.
- 11) What are the salient features of an Earthquake resistant building.

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, March 2018

Programme: B. Plan, School of Planning & Architecture

Course Name: Applied Geology and Hydrology

Course Code: BPLC151

No. of page/s: 1

Semester – II

Max. Marks : 100

Duration: 2Hrs

SECTION-A (5×4= 20 Marks)

Attempt all questions

- 1) What is Mohr's scale of hardness.
- 2) Differentiate between cleavage and fracture.
- 3) Explain the term Earthquake and all the important terminologies related to it.
- 4) Explain the terms aquifer, aquiclude, aquifuge and aquitard.
- 5) Differentiate between vadose water and groundwater.

SECTION-B (4×10= 40 Marks)

Attempt all questions

- 6) Explain the process of weathering in detail and comment on the role of weathering in influencing strength of rocks or soil.
- 7) What are folds? What are its causes and explain its types.
- 8) What is the function of building foundation? What are its types.
- 9) Explain the different process in which ground water recharges.

SECTION-C (2×20= 40Marks)

Attempt all questions

- 10) Explain the role of geology in town planning.
- 11) Give an account on marine erosion and deposition with example of land form features formed due to them.