

Mid-West University
Examinations Management Office
End-Semester Examinations -2080

Bachelor level/ B.E. Civil /3rd Semester

Time: 3 hours

Full Marks: 50

Pass Marks: 25

Subject: Engineering Geology (CE434/CE207)

- *Attempt all the questions*
 - *Figures in the margin indicate full marks.*
 - *Assume suitable values, with a stipulation, if necessary.*
 - *Candidates are required to answer the questions in their own words as far as possible.*
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1. What is rock? How do you identify metamorphic rock in the field? Define the engineering significance of limestone, Quartzite, Phyllite. **(10)**
 2. What do you mean by engineering geology according to IAEG? Explain scope of geology in civil engineering briefly. **(5)**
 3. What is geological hazards? Differentiate between primary wave and secondary wave in earthquake. **(5)**
 4. Define Mohs' scale of hardness? Describe Crystal habit? **(5)**
 5. What is physical geology? Describe the geological work of groundwater. **(5)**
 6. Describe the major tectonic zones of Nepal Himalayas? **(5)**
 7. Describe the lithological characters of Karnali province. **(5)**
 8. Describe rock deformation. A quartzite bed is directed towards S20°W with a dip angle of 45°. Find out the strike of Quartzite bed. **(5)**
 9. Write short notes: **(5)**
 - a) Geological site investigation of dam
 - b) Field identification criteria of fault

The End