

Sub: Sedimentology **Sub No:** ES3201 **Exam:** Mid semester Spring, 2019 **Time:** 90 min

1. Why are the sandstones characterized by mainly Quartz, Feldspar and Rock fragments? Why the sands are more rounded than clays? (2+2)
2. Name the factors which control the formation of Delta. Explain the formation of Cuspate Delta. Explain the vertical lithological variation in a progradational Delta. (2+2+3)
3. Derive the expression for Froude number. Explain the formation of any sedimentary structure which forms in a condition of Froude number less than one. (3+2)
4. What is the difference between Grainflow and Turbidity flow? How to distinguish the products of Grainflow from Turbidity flow in rock records? (1+4)
5. What is crevasse splay? How will you identify crevasse splay deposit in rock records? (1+2)
6. Explain the imbrication in gravel. (3)
7. What is a point bar? How to identify point bar deposits in rock records? (1+2)

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