

Total No. of Questions :4]

SEAT No. :

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P750

[5315]-339

T. Y. B. Sc.

GEOLOGY

GL-333: Sedimentary Petrology

(2013 Pattern) (Semester-III)(Revised) (paper III)

Time : 2 Hours]

[Max. Marks :40

Instructions to the candidates :

- 1) All questions are compulsory.*
- 2) All questions carry equal marks.*
- 3) figures to the right indicate full marks.*
- 4) Neat diagrams must be drawn wherever necessary.*

Q1) Answer the following in 2/3 Lines

[10]

- a) What is epigenetic deposit?
- b) Which sedimentary rocks are suitable for hydrocarbon Prospecting?
- c) Name two oxides which do not undergo mobility.
- d) What are heavy minerals?
- e) Define selective abrasion.
- f) Which Process operates for the Size reduction of Sedimentary particles?
- g) Who Proposed phi scale?
- h) Name any two physical parameters for Sedimentary environmental analysis.
- i) What do you mean by Stylolites?
- j) Name any two heavy minerals which indicate I'gheous Provenance.

Q2) Answer in short (any two)

[10]

- a) Explain the methodology for Studying Sedimentary rocks in laboratory.
- b) Compare grade-scales of Udden and Went worth.
- c) Explain the climatic control on Sedimentation.

P.T.O.

Q3) Answer in short (any two) **[10]**

- a) Describe with the help of example the mobility of oxides.
- b) Describe the process of progressive dilution.
- c) What is Provenance of Sediments. Describe the Provenance with the help of heavy minerals.

Q4) Describe the classification of depositional sedimentary environments **[10]**
OR

Define texture. Enumerate the factors controlling texture of Sedimentary rocks. Distinguish between elastic and Non-elastic textures **[10]**

