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SEAT No. :

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T.Y.B.Sc.

GEOLOGY

GL -332 :Igneous Petrology

(2013 Pattern) (New) (Semester-III) (Paper II)

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) Define primary magma.
- b) Define petrographic province.
- c) Give mineral composition of peridotite.
- d) What is inter granular texture?
- e) What is the basis for classification of igneous rocks according to IUGS?
- f) Define corona/ Reaction rim.
- g) Which minerals are usually found in the rock Anorthosite?
- h) Define Vesicular and Amygdoidal structure.
- i) Name the rock that usually exhibits columnar structure.
- j) Name any two derivative magmas.

Q2) Answer the following (any two).

[10]

- a) Describe Graphic texture & flow structure.
- b) Flow differentiation.
- c) Significance of rock kindreds.

Q3) Write notes on (any two)

[10]

- a) Generation of magmas in different tectonic settings.
- b) Contaminated Granites.
- c) Origin and mineral composition of Basalts.

Q4) Describe CIPW classification of Igneous rocks.

[10]

OR

Describe in detail the crystallisation of Ab-An-D+system & its significance.

