



Fill in the blanks :

- 9 \_\_\_\_\_ is the term used to denote mineral composition of a rock by volume.
- 10 \_\_\_\_\_ structure divides the rock into pillar like blocks.
- 11 Porphyritic texture in which the phenocrysts cluster together is \_\_\_\_\_.
- 12 Crystallinity of rocks made up of crystals and glass is \_\_\_\_\_.

(12 × ¼ = 3 weight)

II. Short Answer question (Answer *all* questions) :

- 13 Primary magma.
- 14 Dyke.
- 15 Perthite.
- 16 Trachytic texture.
- 17 Colour index.
- 18 Pegmatite.
- 19 Liquid immiscibility.
- 20 Pyroclastics.
- 21 Anorthosite.

(9 × 1 = 9 weight)

III. Short Essays (Answer any *five*) :

- 22 Concordant forms.
- 23 Lava flows.
- 24 Granularity.
- 25 Inequigranular texture.
- 26 Classification of granites.
- 27 Variation diagram and their significance.
- 28 Lamprophyres.

(5 × 2 = 10 weight)

IV. Essay Questions (Answer any *two*) :

- 29 Give an account of the different structures in igneous rocks. Add a note on their significance.
- 30 Describe the IUGS-QAP classification for plutonic rocks.
- 31 Briefly describe the various crystallisation and melting sequence in Diopside–Anorthite.

(2 × 4 = 8 weight)