5. Explain the following :

(a) Current bedding

(b) Classification of metamorphic rocks

(c) Schistose structure.

OR

(p) Clastic and Non-Clastic Textures

(q) Stress and Antistress minerals

(r) Gneissose structure. 12

6. Describe the following :

(a) Classification of Brachiopoda

(b) Dentition in Lamellibranchia

(c) Geological history of Gastropods.

OR

(p) Morphology of Cephalopods

(q) Geological history of Brachiopoda

(r) Difference between Lamellibranchia and Brachiopoda. 12

7. Describe the following :

(a) Classification of cuddapah rocks

(b) Sausar-sakoli series

(c) Lithology of Vindhyan super group.

OR

(p) Lithology of Dharwar super group

(q) Economic importance of Vindhyan rocks

(r) Stratigraphy of Maharashtra. 12

AP–426

B.Sc. (Part–I) Semester–II Examination

2S : GEOLOGY

Time—Three Hours] [Maximum Marks—80

Note :— (1) **ALL** questions are compulsory.
(2) Draw neat figures wherever necessary.

1. (A) Fill in the blanks :

(1) Multiple twinning is a character of _____ group of mineral.

(2) The igneous rocks formed at greater depth are known as _____.

(3) The most common rock type in Maharashtra is_____.

(4) The class pelecypoda is also referred as _____. 2

(B) Choose the correct alternatives :

(1) The mineral that appears dark throughout rotation under crossed Nicol is termed as.

(a) Isotropic

(b) Pleochroic

(c) Anisotropic

(d) Extinct

(2) The end member of Bowen's Reaction series is :

(a) Olivine

(b) Mica

(c) Quartz

(d) Garnet

(3) The sedimentary rocks made up of five particles are known as :

(a) Arenaceous

(b) Argillaceous

(c) Rudaceous

(d) None of the above

(4) Gneissose structure in metamorphic rocks is the result of :

(a) Metasomatism

(b) Pressure

(c) Recrystallization

(d) None of the above 2

(C) Answer the following in **ONE** or **TWO** sentences :

(1) What is refractive Index ?

(2) What are Volcanic rocks ?

(3) What is the economic importance of Vindhyan super group ?

(4) What is dextral coiling in gastropod ? 4

2. Describe the following :

(a) Nicol Prism

(b) Isotropism and Anisotropism

(c) Pleochroism.

OR

(p) Extinction and its type

(q) Refractive Index

(r) Critical Angle. 12

3. Describe in detail the mineralogy, physical properties, optical properties and structure of Feldspar group of minerals.

OR

Describe in detail the mineralogy, physical properties, optical properties and structure of Garnet group of minerals. 12

4. Explain the following :

(a) Chemical classification of Igneous rocks

(b) Characters of Basic Igneous rocks

(c) Formation of Igneous rocks.

OR

(p) Bowen's Reaction Series

(q) Mineralogical classification of Igneous rocks

(r) Classification on the basis of silica saturation. 12