2/EH-26(ii) (Syllabus-2015)

2016

(April)

GEOLOGY

(Elective/Honours)

SECOND PAPER

(Petrology)

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer four questions, selecting one from each Unit

GROUP-A

(Igneons Petrology)

UNIT-I

1.	(a)	Write a note on the mode of occurrence of igneous rocks.	3
	(b)	Give an account of Bowen's reaction series.	5
	(c)	Give the IUGS classification of plutonic igneous rocks.	6

2x4=8

2+2+10=14

31/2×4=14

2

6. (a) Write brief notes on any four common 2. (a) Define magma. 2 mechanical structures of sedimentary List the different processes of magmatic rocks. Draw neat sketches. differentiation. Describe any two (b) How does a wacke differ from an processes of magmatic differentiation. arenite? $4+(4\times2)=12$ (c) Write a brief note on the various components of limestone. UNIT-II 3. Describe with the help of neat sketches the UNIT-IV different textures of igneous rocks. 14 7. Define metamorphism. List the different factors of metamorphism. Write briefly on the 4. Write petrographic notes on any four of the different types of metamorphism. following: 31/4×4=14 Granite 8. Write brief notes on any four of the following: (b) Basalt (c) Syenite Gneissose structure (d) Gabbro Porphyroblastic texture Dolerite Charnockite Diorite Granulite GROUP_B Slate (Sedimentary and Metamorphic Petrology) **Amphibolite** UNIT-III *** (a) Describe with neat sketches the textural elements of clastic sedimentary rocks. (b) Write a brief note on the diagenetic process in sedimentary rocks. 2/EH-26(ii) (Syllabus-2015) D16/1445

(Continued)

D16-200/1445