

Reg. No.:



Name:

University of Kerala

U8924

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

GEOLOGY

UK2DSCGLY171 - Minerals and Rocks

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

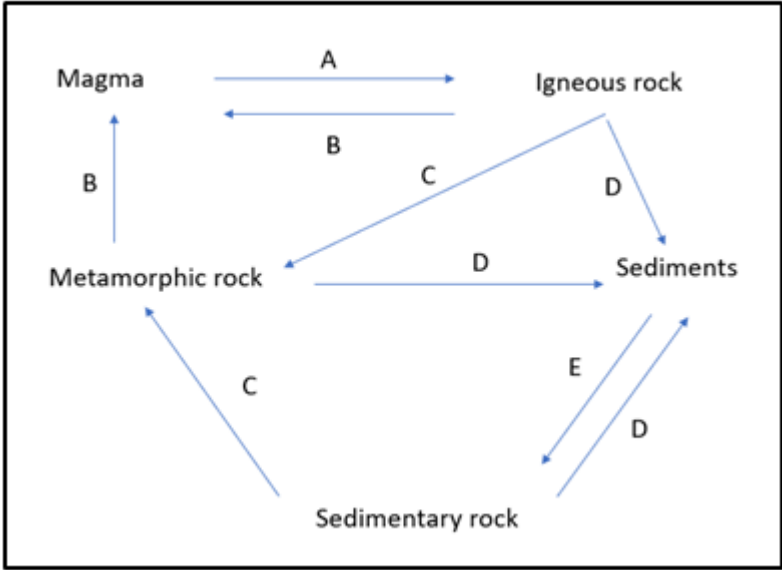
Qn No.	Question	CL	CO
1	The hardest silicate mineral in Mohs hardness scale is	RE	1
2	Granite is which type of rock?	RE	1
3	Rocks are made up of	UN	2
4	What is the upper limit of metamorphism? Options : A)a) 200°C B)b) 400°C C)c) The onset of melting D)d) When rocks become sedimentary	UN	2
5	What is a large, concave intrusion of magma that forms below the Earth's surface?	UN	1
6	State true or false: In the rock cycle, old rocks are converted to new ones.	UN	2

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	What is granularity in igneous rocks?	UN	1
8	What factors influence the sorting of sediments?	UN	2
9	Explain plutonic, volcanic, and hypabyssal rocks.	AP	2
10	What is the difference between mechanical and chemical weathering?	AP	2

Qn No.	Question	CL	CO

Part C. 28 Marks. Time: 60 Minutes (Cognitive Level: Apply (AP) / Analyse (AN) / Evaluate (EV) / Create (CR)) Long Answer. 7 marks each. Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) Explain the role of different factors that control metamorphic reaction. OR B) Identify the figure and explain the process corresponding to the alphabets given. 	AP	2, 1
12	A) Discriminate between cross bedding and graded bedding, ripple marks and mud cracks OR B) Classify and describe the following- Lacolith, Lopolith, Phacolith, Dyke, Sill, Batholith, Stock	AN	2, 2
13	A) The formation of a clastic sedimentary rocks involves five processes- explain. OR B) Evaluate the equigranular and inequigranular textures in Igneous rocks.	EV	2, 2
14	A)	CR	3, 3

Qn No.	Question	CL	CO
	Generate the diagram of rock cycle and explain its processes. OR B) You are presented with following specimens of rock for megascopic identification. Explain the characteristic of these rocks : granite, slate, basalt, charnockite, dunite, sandstone, shale		