## 2203E1296

Candidate's Seat No :\_\_\_\_\_

## **B.Sc. Semester-5 Examination**

CC 302

Geology Time: 2-30 Hours] March-2024

[Max. Marks: 70

Instructions: (i) Draw neat diagrams whenever necessary.

		(ii) Write proper answer number.	
Q-	The state of the s	Explain crystallisation of bi-component magma with suitable examples.	(14)
		OR	(11)
Q-1	(a)		
	<b>(b)</b>	Pyrogenetic minerals.	(07)
		• 6	(07)
Q-2	,	State the bases of classification of igneous rocks and explain classification of	
		igneous rocks based on chemistry.	(14)
		OR	
Q-2	(a)		
	(b)		(07)
		and undersaturated gabbioic focks.	(07)
Q-3		Explain dislocation and plutonic metamorphism with examples from India.	
		OR	(14)
Q-3	(a)	Dynamothermal metamorphism of argillaceous rocks.	
	(b)	Thermal metamorphism of carbonate rocks with examples from Gujarat.	(07)
		Gujarat.	(07)
Q-4		Explain mineral parageneses of metamorphic rocks with reference to ACF and	
		AFM diagram.	(14)
		<u>O</u> R	
Q-4	(a)	Divarient metamorphic reactions.	(07)
	(b)	Grades and facies of metamorphic rocks.	(07)
			(07)
Q-5		Attempt any seven questions out of twelve.	
•	(i)		(14)
	(ii)	Draw a sketch of Tamman curve.	
	(iii)	Name four textures of igneous rocks based on fabric.	
	(iv)	Give the variants of undersaturated basalts.	
	(v)	Give the mineralogy of leucitophyre and leucitite.	
	(vi)	Define and draw a sketch of rapakivi texture.	
	(vii)	Give examples of anomalies produced due to stresse contributions	
	(viii)	Give examples of anomalies produced due to stress effect in metamorphism.  Define anti-stress minerals with examples.	
	(ix)	Give grade and type of metamorphism when sericite schist is formed.	
	(x)	Define uralitisation and saussuritisation.	
	(xi)	Explain deformation and phase diagram.	
	(xii)	Give similarity and distinction of quartzite, marble and amphibolite and	
	. ,	hornfels.	