Total No. of Questions : 5]	S	SEAT No:
P379	[5115]-11 F.Y.B.Sc	[Total No. of Pages :3
	GEOLOGY	
	<b>Mineralogy and Petrology</b>	
	(2013 Course)(Paper - I)	

Time: 3 Hours] [Max. Marks: 80

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Draw neat labelled diagrams wherever necessary.
- 3) Figures to the right indicates full marks.
- **Q1)** Answer the following questions.

[16]

- a) Define sublimation process.
- b) Define the term faces and form.
- c) Define Petrology and Petrography.
- d) Define the forms Dome and Pyramid.
- e) Define magma and lava.
- f) State the names of metallic minerals formed by magmatic crystallisation.
- g) Give the systematic classification of igneous rocks based on colour.
- h) Define Columnar joints.
- **Q2)** Answer the following questions (Any four):

[16]

- a) Explain measurement of Interfacial angle.
- b) Explain Clastic and Non clastic textures.
- c) Describe Isomorphism and Polymorphism.
- d) Describe the Graded bedding and Current bedding.
- e) Describe the Covalent and Ionic bonds.
- f) Describe the types of unconformities.

*P.T.O.* 

<i>Q3</i> )	3) Answer the following questions (Any Four):					
	a)	Give the list of minerals used in following industries.				
		i)	Ceramic			
		ii)	Glass			
		iii)	Cement			
		iv)	Paint			
	b)	Defi rock	ne texture. State the factors controlling textures of igneous as.			
c) Describe the term isotropism			cribe the term isotropism and anisotropism.			
	d)	Desc	cribe the following terms with neat diagrams			
		i)	Normal fault			
		ii)	Reverse fault.			
	e)	Give	e the major elements constituting minerals.			
	f)	Desc	cribe the following rocks			
		i)	Marble			
		ii)	Quartzite			
04)	Ans	wer 1	the following questions (Any Two):	[16]		
Q+)	a)	Define Mineralogy. Give its branches. Add a note on its importance.				
	b)					
	c)	Defi	Define fold. Describe the various parts of fold with neat labelled diagram.			
	d)	Describe how sedimentary rocks are formed? Descr conglomerate, Breccia and laterite rocks.				

**Q5)** Describe the physical properties of the mineral.

[16]

OR

a) Describe rock cycle. [8]

b) Define Metamorphism. Give its agent and describe various kinds of metamorphism. [8]

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