## M.Sc. (Geology) (CBCS Pattern) First Semester (New Course)

## PSCGEOT03 - Metamorphic Petrology & Geological Mapping Paper-III

P. Page Time:		Hours		<b>3</b> 2 6 7	<b>Ⅲ</b> *	GUG/W/18/11164 Max. Marks : 80
N	lotes :	1. 2.	All questions are compulsor Draw neat sketches where	-	· ·	
1.	De	escribe	e in detail factors controllin	_	orphism. O <b>R</b>	
	W	rite sh	ort notes on :-			
	a)	Por	phyroblastic textures	b)	Dynamic metamorphism	
	c)	Imp	pact metamorphism	d)	Transient geotherm	
2.	De	escribe	e in detail regional metamo	rphism of	mafic rocks.	
				0	R	
	W	rite sh	ort notes on:-			
	a)	Me	tamorphic differentiation	b)	Origin of granites	
	c)	Pai	red metamorphic belts	d)	Metamorphic facies	
3.	Describe in detail the Mineralogical phase rule for closed and open systems					S.
	OR					
	W	rite sh	ort notes on:-			
	a)		F diagram	b)	Fugacity	
	c)		F diagram	d)	Isograds and reaction isogra	ads
4.	De	escribe	e in detail objectives of geo	logical ma	apping.	
			3		R	
	Write short notes on:-					
	a)		ographic maps			
	b)	_	bes of geological maps			
	c) Mapping methods in sedimentary terrains.					
	d) Principles of geological mapping					
5.	Write short notes:-					
	a)	Oce	ean floor metamorphism			
	b)		gional Metamorphism			
	c)	_	tamorphic zones			
	d)		nulite			
	e)		ropy			
	f)		halpy			
	g)		se maps			
	b)		ological symbols in maps			
	11)	GC	Mogreal symbols in maps	****	****	