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PG (NEW) CBCS M.Sc. Semester-I Examination, 2018 GEOGRAPHY

PAPER: GEO-103

(Climate, Soil and Agriculture)

Full Marks: 40



Time: 2 Hours

Write the answer for each unit in separate sheet

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

GEO103.1: Climatology

Marks: 20

GROUP-A

1.	Answer any one question:	8=8
a)	Discuss the evidences of past climatic changes with proper example.	8
b)	What is sea surface temperature? Explain the role of Walker circular in the regulation of tropical sea surface temperature.	tio 8
	Group-B	
2.	Answer any two questions: 2×4	4=8
a)	Describe the formation of Tropical cyclone with proper diagram.	4
b)	Explain the 'Conditional Instability' in relation to lapse rates.	4
c)	Elucidate the role of Tropical Easterly Jet stream on Indian monsoon.	4
d)	Explain the impact of global warming on human health.	4
	Group-C	
3.	Answer any two questions: 2×2	2=4
a)	Discuss the climatic characteristics of 'Am' climatic zone.	2
b)	Why annual and diurnal range of temperature is high in 'BWh' climate	e? 2
c)	Define 'MONEX'	2
d)	Why is it said that 'night is the winter of the tropics'?	2

GEO103.2: Soil and Agriculture

Marks: 20

GROUP-A

	Answer any one question:)-0
a)	How soil and climate determine the regional variation in agricult pattern? 5+3=8	
b)	Critically discuss the chronasequences of Soil profile at local level.	8
	Group-B	
2.	Answer any two questions: 2×4	1=8
a)	How does soil catena develops under tropical humid environment?	4
b)	Write a short note about methods of precision farming.	4
c)	Why is soil considered combined reflector of soil properties?	4
d)	What are the roles of Green Revolution on degrading Soil quality Punjab?	y ir 4
	Group-C	
3.	Answer any two questions: 2×2	2=4
a)	What do you mean by GM crops?	2
b)	Define agricultural system.	2
c)	Define wilting point.	2
d)	What is Capillary capacity?	2
