Total No.	of Q	uestions	:	7]
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[Total No. of Pages: 2

[5914]-11 M.A./M.Sc. - I GEOGRAPHY

		GEOGRAI III	
		GGUT-111: Principles of Geomorpholo	ogy
	(2019 Pattern) (CBCS) (Semester - I) (4 C	Credits)
Time	:3 E	Hours]	[Max. Marks: 70
Instru	ıctio	ns to the candidates:	
	1)	Question No.1 is compulsory.	
	2)	Solve any five questions from question No.2 to question No.7	
	3)	Questions 2 to 7 carry equal marks.	
	4)	Use of map stencil is allowed.	
Q 1)	So	lve any Five of the following (Around 20 words each):	[10]
	a)	Explain Davisian cycle of erosion:	
	b)	Types of glaciers.	
	c)	Ocean currents and tides.	
	d)	Work of water in desert and associated landforms.	
	e)	Hierarchy of spatial and temporal scales in Geomorpho	ology.
	f)	Define and explain geomorphology.	
Q 2)	a)	Explain Geologic time scale.	[7]
	b)	Describe internal structure of the Earth based on physic	cal properties.[5]
Q 3)	a)	Write the Wegener's continental drift theory.	[7]
	b)	Describe chemical weathering processes.	[5]

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Q4)	a)	What is the Penck model of hill slope development?	[7]
	b)	What are types of fluvial erosion? Draw diagrams of fluvial erosion.	[5]
Q 5)	a)	Describe fluvial erosional landforms with diagrams.	[7]
	b)	Write a note on characteristics of sea waves.	[5]
Q6)	a)	Describe glacial depositional landforms with diagram.	[7]
	b)	Explain theory of isostasy.	[5]
Q 7)	Wr	ite short notes on any Two of the following:	[12]
	a)	Seismic waves and types.	
	b)	Paleomagnetism.	
	c)	Characteristics of aeolian environment.	

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SEAT No.	:
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[Total No. of Pages: 2

[5914]-12

M.A./M.Sc. (Part - I) GEOGRAPHY

GGUT - 112 : Principles of Climatology (2019 Pattern) (CBCS) (Semester - I)

		(2019 Pattern) (CBCS) (Semester - I)	
		Hours] [Max.	Marks: 70
	1) 2)	Question no 1 is compulsory. Solve any five questions from Q.2 to Q.7.	
	<i>3) 4)</i>	Questions 2 to 7 carry equal marks. Use of map stencil is allowed.	
Q 1)	Solv	ve any five of the following:	[10]
	a)	Define climate.	
	b)	What is mean by atmosphere?	
	c)	Define terrestrial radiation.	
	d)	What is mean by geostrophic wind?	
	e)	Write the units of temperature measurements.	
	f)	Define evaporation.	
Q2)	a)	Explain the structure of atmosphere.	[7]
	b)	Discuss on types of aurora.	[5]
Q 3)	a)	Explain the factors affecting on horizontal distribution of temp	perature.[7]
	b)	Discuss the greenhouse effect.	[5]
Q4)	a)	Define wind. Explain the factors affecting wind.	[7]
	b)	Cyclones and anticyclones.	[5]

Q 5)	a)	What is mean by condensation? Explain the forms of condensation.	[7]
	b)	Discuss on hydrologic cycle.	[5]
Q6)	a)	Define lapse rate. Explain the various types of lapse rate.	[7]
	b)	Discuss on stable and unstable air.	[5]
Q7)	Writ	e short notes on any two of the following:	12]
	a)	Nature of climatology.	
	b)	Electromagnetic spectrum.	
	c)	Types of fronts.	
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Total N	o. of Q	uestions	:	7]
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SEAT No.:	
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[Total No. of Pages : 2

[5914]-13 M.A./M.Sc. - I **GEOGRAPHY**

GGUT-113: Principles of Economic Geography

(2019 Pattern) (CBCS) (Semester - I) Time: 3 Hours] [*Max. Marks* : 70 Instructions to the candidates: Question No. 1 is compulsory. *1*) 2) Solve any five questions from Q.2 to Q.7. Questions Q.2 to Q.7 carry equal marks. 3) Use of map stencil is allowed. **4**) Q1) Solve any five of the following: [10] Give any two definitions of Economic Geography. a) b) What are exhaustible resources? What are the spatial aspects of economic development. c) State the importance of GDP as indicator of economic development. d) Define globalization. e) Enlist the characteristics of the stage of 'Age of high mass consumption'. f) Describe the nature of economic Geography. **Q2**) a) [7] Discuss the causes of regional disparity in Maharashtra. [5] b) Explain significance of natural resources in economic development. [7] **Q3**) a)

Justify the importance of raw material in industrial location.

[5]

Q4)	a)	Give an account of India's post independance economic developm	ent. [7]
	b)	Describe Myrdal's model in brief.	[5]
Q 5)	a)	Explain the need of new green revolution in India.	[7]
	b)	Describe the significance of privatization.	[5]
Q6)	a)	Explain various approaches to the study of economic geography.	[7]
	b)	Discuss the significance of human resource in economic developm	ent. [5]
Q 7)	Writ	e short notes on any two of the following:	[12]
	a)	Classification of economic activities.	
	b)	Problems of India's international trade.	
	c)	IT Industry in Maharashtra.	

Total No. of Questions: 7]	SEAT No. :	
DA_3201	[Total No. of Pages : 2	

[5914]-14 M.A/M.Sc. - I

		GEOGRAPHY	
	G	GDT - 114: PRINCIPLES OF POPULATION AND	
		SETTLEMENT GEOGRAPHY	
		(2019 Pattern) (Semester - I) (CBCS)	
Time	:3 H	[Max. Marks:	70
Instr	ructio	ns to the candidates:	
	1)	Q.1 is compulsory.	
	2)	Solve any five questions from Q.2 to Q.7.	
	<i>3) 4)</i>	Q.2 to Q.7 carry equal marks. Use of map stencil is allowed.	
Q1)	Solv	e any Five of the following:	10]
	a)	Define settlement geography.	
	b)	What is urbanization?	
	c)	What is dependency ratio?	
	d)	What is fecundity?	
	e)	Define village.	
	f)	What is nucleation?	
Q2)	a)	Explore the scope of population geography.	[7]
	b)	Define Central Business District (CBD) and describe its characteristic	ics. [5]
<i>Q3</i>)	a)	Explain the approaches to study settlement geography.	[7]
	b)	Discuss the level and trend of urbanization in India.	[5]

Q4)	a)	Explain the demographic transition theory.	[7]
	b)	Discuss the types of settlement.	[5]
Q 5)	a)	Define literacy and explain the measures of literacy.	[7]
	b)	Explore the economic factors affecting density of population.	[5]
Q6)	a)	Describe the physical factors affecting dispersion and nucleation.	[7]
	b)	Explain the concepts of age and sex structure of population.	[5]
Q 7)	Writ	e short notes on any Two of the following:	[12]
	a)	Concepts of urban agglomeration and urban sprawl.	
	b)	Stages of urbanization.	
	c)	Size and spacing of villages.	

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Total	No.	\mathbf{of}	Questions	:	7]
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[5914]-21 M.A./M.Sc. GEOGRAPHY

GGUT-121: Geoinformatics - I (2019 Pattern) (CBCS) (Semester - II)

		(201) Tattern) (CDCB) (Bennester	- 11)
Time	: 3 E	Hours]	[Max. Marks : 70
Instru	ction	ns to the candidates:	
	<i>1</i>)	Q.1 is compulsory.	
	2)	Solvle any five questions from Q.2 to Q.7.	
	<i>3) 4)</i>	Questions 2 to 7 carry equal marks. Use of map stencil is allowed.	
Q 1)	Sol	lve any five of the following:	[10]
	a)	Which are the components of GIS?	
	b)	Give the definition of GIS.	
	c)	What is mean by topology?	
	d)	Name of the Spatial data models in GIS.	
	e)	Mention major grid operations.	
	f)	Give the type of errors in digitization.	
Q2)	a)	Discuss potential of GIS.	[7]
	b)	Discuss the query and analysis as a GIS task.	[5]
Q 3)	a)	Discuss the history of GIS.	[7]
	b)	Give an account of Grid operations in GIS.	[5]

Q4)	a)	Give a brief account of Spatial information theory.	[7]
	b)	What is nominal scale? Give examples.	[5]
Q 5)	a)	Explain the process of digitization in GIS.	[7]
	b)	Describe non-spatial data with example.	[5]
Q6)	a)	Explain GIS task.	[7]
	b)	Discuss about application of GIS.	[5]
Q 7)	Wr	rite short notes on any two of the following:	[12]
	a)	Error detection.	
	b)	Describe the DBMS.	
	c)	Quad tree structure.	

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Total No.	\mathbf{of}	Questions	:	7]
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SEAT No. :	
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[Total No. of Pages : 2

[5914]-22

M.A. / M.Sc.

GEOGRAPHY - I

GGUT-122: Coastal Geomorphology

(2019 Pattern) (CBCS) (Semester - II) Time: 3 Hours] [*Max. Marks* : 70 Instructions to the candidates: Question No. 1 is compulsory. 1) Solve any five questions from Q.2 to Q.7. 2) Questions Q.2 to Q.7 carry equal marks. 3) Use of map stencil is allowed. **4**) Q1) Solve any five of the following: [10] What is temporal scales in coastal geomorphology? a) b) Define wave depth. What is mean by diurnal tides? c) Define estuaries. d) Define blow holes. e) Write any two grain size characteristics. f) Explain the components of coastal system processes in detail. **Q2**) a) [7] Discuss types of waves. [5] b) Describe equilibrium theory of tides. [7] **Q3**) a) Discuss wind induced, river induced and tide induced currents. b) [5]

<i>Q4</i>)	a)	Explain consequences of sea level changes in detail.	[7]
	b)	Discuss future sea level changes.	[5]
Q 5)	a)	Define coastal sediments. Explain in detail types of coastal sediments	nts. [7]
	b)	Discuss the characteristics of wave dominated coast.	[5]
Q6)	a)	Explain mangrove swamps and salt marshes in detail.	[7]
	b)	Discuss on coastal erosion and progradation.	[5]
Q7)	Writ	te short notes on any two of the following:	12]
	a)	Flood and ebb currents.	
	b)	Coastal sand dunes.	

geomorphology.

c) Local and international case studies related to applied coastal

Total No. of Questions: 7]	SEAT No.:
PA-3294	[Total No. of Pages : 2

PA-3294

[5914]-23

M.A./M.Sc. (Geography) GGUT - 123 : SYNOPTIC CLIMATOLOGY

		(2019 Pattern) (CBCS) (Semester - II)	
		Hours] [Max. Marks	s : 70
insti		ons to the candidates:	
	1) 2)	Q.No. 1 is compulsory. Solve any five questions from Q.2 to Q.7.	
	3)	Questions 2 to 7 carry equal marks.	
Q1)	So	lve any Five of the following:	[10]
	a)	Define synoptic climatology.	
	b)	What do you mean by meteorological code?	
	c)	List the type of fronts.	
	d)	What is the synoptic approach to the study of synoptic climatological	gy?
	e)	What is Cloud?	
	f)	Define cold wave.	
Q2)	a)	Explain the various levels of climatological synthesis.	[7]
	b)	Explain structure of Thunderstorm.	[5]
<i>Q3</i>)	a)	Discuss the formation and characteristics of easterly wave.	[7]
23)		·	
	b)	Describe weather reporting and analysis system of India Meteorolo Department.	[5]
Q4)	a)	Write a note on fog formation and its types.	[7]
	b)	Describe the principle zones of frontogenesis and frontolyses.	[5]

Q 5)	a)	Discuss air Masses of Europe.	[7]
	b)	Explain the Bergeron process of precipitation.	[5]
Q6)	a)	Explain various methods of weather forecasting.	[7]
	b)	How synoptic climatology knowledge helps in Aviation?	[5]
Q7)	Wı	rite short notes on any Two of the following:	[12]
	a)	Synoptic charts	
	b)	Rossby waves	
	c)	Medium range forecasting	

[5914]-23

Total No	o of Q	uestions	:	7]
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PA-3295	
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SEAT No.:	
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[Total No. of Pages: 2

[5914]-24

M.A./M.Sc. (Part - I) **GEOGRAPHY**

GGUT - 124 · Agricultural Geography

	(2019 Pattern) (CBCS) (Semester - II)			
Time: 3 Hours] [Max. Marks.		. Marks : 70		
Instr	uction	is to the candidates:		
	<i>1</i>)	Q.1 is compulsory.		
	<i>2</i>)	Solve any five questions from Q.2 to Q.7.		
	<i>3</i>)	Questions 2 to 7 carry equal marks.		
	<i>4</i>)	Use of map stencil is allowed.		
Q 1)	Solv	ve any five of the following:	[10]	
	a)	Give any two definitions of Agriculture Geography.		
	b)	What is crop rotation?		
	c)	Define commodity approach.		
	d)	What is agricultural drought?		
	e)	Mention geographical characteristics of wheat and sugarca India.	ne region in	
	f)	Mention the influence of rainfall on agriculture.		
Q 2)	a)	Discuss the influence of technological factors on agriculture	. [7]	
	b)	Discuss agricultural problems of arid region in India.	[5]	
Q 3)	a)	Explain the nature of Agriculture Geography.	[7]	
	b)	Explain Weaver's crop combination method.	[5]	
Q 4)	a)	Discuss agricultural regions in India.	[7]	
	b)	Explain plantation agriculture.	[5]	
Q 5)	a)	Give an account of Whittlesey's agricultural regions.	[7]	
	b)	Discuss green revolution in India.	[5]	

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- Q6) a) Describe the influence of relief and soil on agricultural pattern. [7]
 - b) How organic farming can help in achieving sustainable agricultural development in India, discuss with examples. [5]

[12]

- Q7) Write short notes on any two of the following:
 - a) Agricultural efficiency
 - b) Mixed farming
 - c) Drought and its impact on agriculture.



Total No.	of Questions	:7]
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SEAT No.:	

PA-3296

[Total No. of Pages : 2

[5914]-25

		[5914]-25	
		M.A./M.Sc. (Geography)	
		GGUT - 125 : POPULATION GEOGR	APHY
		(2019 Pattern) (Semester - II)	
Time	2:3 E	Hours]	[Max. Marks : 70
Insti		ons to the candidates:	
	1)	Q.1 is compulsory.	
		Solve any five questions from Q.2 to Q.7. Question 2 to 7 carry equal marks.	
01)	Solv	yo any fivo of the following :	[10]
QI)		ve any five of the following:	[10]
	a)	Define fertility.	
	b)	Define migration.	
	c)	What is population growth?	
	d)	Concept of brain-drain migration.	
	e)	Define census.	
	f)	What is sample registration survey?	
Q2)	a)	Describe the population distribution in the world.	[7]
	b)	Which are the measures of mortality?	[5]
Q 3)	a)	Explain the factors affecting on fertility.	[7]
	b)	Discuss the demographic composition of population	. [5]
Q4)	a)	Explain the scope of population geography.	[7]
	b)	Discuss the factors affecting on population density.	[5]

Q5)	a)	Describe the Malthus theory of population growth.	[7]
	b)	What are the sources of population data?	[5]
Q6)	a)	Explain the Lee's theory of migration.	[7]
	b)	Discuss NFHS.	[5]
Q 7)	Writ	te short notes on any two of the following:	[12]
	a)	Relation between population and development.	
	b)	Population policy of China.	
	c)	Nature of population Geography.	



Total No. of Questions: 7]	SEAT No.:
PA-3297	[Total No. of Pages : 2
[5914	1]-26
F.Y. M.A/M.So	c. (Geography)
GGUT - 126 : FLUVIAL	GEOMORPHOLOGY
(2019 Pattern) (Sen	nester - II) (CBCS)
Time: 3 Hours]	[Max. Marks : 70
Instructions to the candidates:	
1) Q.1 is compulsory.	
2) Solve any five questions from Q.2	2 to Q.7.
3) Q.2 to Q.7 carry equal marks.	
Q1) Solve any Five of the following (A	around 20 words each): [10]

- a) Define drainage basin.
 - b) What is the law of allometric growth?
 - c) Define entrainment of sediment.
 - d) What is through flow or subsurface flow?
 - e) Explain river discharge (Q) with formula.
 - f) Explain the Manning's equation of flow velocity with formula.
- Q2) a) What are the different channel patterns? Explain the meandering channel pattern in detail with suitable diagram.[7]
 - b) Distinguish between steady and unsteady flows. [5]
- Q3) a) What are the types of erosion? Explain any four erosional landforms of bedrock channels with suitable diagrams.[7]
 - b) Distinguish between suspended load and bedload. [5]

Q4)	a)	Define hydraulic geometry and distinguish between at-a-station downstream hydraulic geometry with respect to form and flow behavior	
	b)	Explain cross section morphology of a river.	[5]
Q5)	a)	Explain the phases of drainage network development of Glock's m with suitable diagram.	nodel [7]
	b)	Differentiate between the alluvial and bedrock rivers.	[5]
Q6)	a)	Define fluvial geomorphology and elaborate its scope.	[7]
	b)	Briefly explain any two landforms associated with floodplains.	[5]
Q7)	Writ	te short notes on any Two of the following:	[12]
	a)	Any two evidence of river metamorphism.	
	b)	Flood stages and hydrograph.	
	c)	Formation of river terraces.	

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Total	No.	\mathbf{of}	Questions	:	7]
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SEAT No.:	
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[Total No. of Pages: 2

[5914]-27 M.A./M.Sc. (Part - I) **GEOGRAPHY**

127 · Monsoon Climatology CCUT

		(2019 Pattern) (CBCS) (Semester - II	
Time	:3 E	Hours] [Max. Marks .	: 70
Instr	uction	ns to the candidates :	
	1)	Q.1 is compulsory.	
	<i>2</i>)	Solve any five questions from Q.2 to Q.7.	
	3)	Questions 2 to 7 carry equal marks.	
Q 1)	Solv	ve any five of the following:	10]
	a)	What do you mean by the term 'Monsoon'?	
	b)	How are normal dates of on set and withdrawal of Monsoon decided	1?
	c)	Define heat low.	
	d)	What is full form of ENSO?	
	e)	List any two factors used for Monsoon forecasting.	
	f)	What is short forecatsing?	
Q 2)	a)	Describe East Asian Monsoon.	[7]
	b)	Explain the Monsoon model on non-rotating Earth.	[5]
Q 3)	a)	Discuss wind pattern and pressure system over India during South W. Monsoon Season.	Vest [7]
	b)	Explain the role of Tibetan High in Indian Monsoon.	[5]
Q4)	a)	Explain the mid-tropospheric disturbances and offshore vortices.	[7]
	b)	How El-Nino Southern Oscillation (ENSO) affects inter-annual variabit of Monsoon.	lity [5]

Q 5)	a) b)	Give an account of current Monsoon forecasting system followed	[7] by [5]
Q6)	a)	Describe the role of upper atmosphere affecting inter-annual variability Indian Monsoon.	of [7]
	b)	Explain the scope of Monsoon Climatology.	[5]
Q 7)	Writ	te short notes on any two of the following: [1	2]
	a)	Flohn's Concept	
	b)	Monsoon Trough	
	c)	MONEX	

Total No. of Questions : 7]	SEAT No.:
PA-3299	[Total No. of Pages : 2

[5914]-28 M.A./M.Sc. GEOGRAPHY

		GEOGRAPHY	
		GGUT - 128 : Industrial Geography	
		(2019 Pattern) (Semester - II) (Credit - 4)	
Time	2:3 H	Iours] [Max. Mark	s : 70
Instr	ructio	ns to the candidates:	
	<i>1</i>)	Q.1 is compulsory.	
	<i>2</i>)	Solve any five questions from Q2 to Q7.	
	3)	Questions 2 to 7 carry equal marks.	
Q1)	Solv	ve any five questions of the following:	[10]
	a)	What do you mean by an industrial region?	
	b)	Give the names of industrial regions in Anglo America.	
	c)	Characteristics of industries.	
	d)	Give any two functions of MTDC.	
	e)	Give any two names IT hubs in India.	
	f)	State any two names of cotton industrial region in India.	
Q2)	a)	Critically examine the Israd's model.	[7]
	b)	Describe the industrial regions of Maharashtra.	[5]
Q3)	a)	Describe the impact of economical factors on industrial location.	[7]
	b)	Explain the concept of agglomeration of industries.	[5]
Q4)	a)	Discuss the role of software industries in India.	[7]
	b)	Give the distribution of automobile industry.	[5]

Q 5)	a)	Discuss the favorable conditions for iron & steel industries in Japan.	[7]
	b)	Discuss the problems and prospects of industrial region in China.	[5]
06)	٥)	Discuss the current scenerious of small scale industries in India.	[7]
Q6)	a)	Discuss the current scenerious of small scale moustries in mora.	[,]
	b)	Explain the prospect of agro-based industries in Maharashtra.	[5]
Q7)	Writ	e short notes on any two of following:	[12]
	a)	Assumptions of Weber's model.	
	b)	FDI.	

Chemical industry. c)



Total No. of Questions: 7]	SEAT No.:
PA-3300	[Total No. of Pages : 2

[5914]-29 M.A./M.Sc. GEOGRAPHY

GEOGRAPHY GGUT - 129 : Geography of Rural Settlements (2019 Pattern) (Semester - II) (Credits system) Time: 3 Hours] [Max. Marks : 70] *Instructions to the candidates:* Question 1 is compulsory. Solve any five questions from Q.2 to Q.7 2) Questions 2 to 7 carry equal marks. 3) Use of map stencils is allowed. **4**) Q1) Solve any five of the following. [10] What is dispersion? a) b) What do you mean by site of settlement? Define settlements. c) d) What is trading center? What do you mean by location of settlement? e) Define range of goods. f) **Q2**) a) Define site and situation, briefly describe factors affecting site of settlements. [7] Discuss the historical and cultural aspects of settlements reflected in place b) names. [5] Describe the causes and consequences of rural-urban migration. **Q3**) a) [7] Discuss the factors affecting intensity of land use. [5] Explain how sequence of occupancy from Neolithic to modern period **Q4**) a) has influenced on rural settlements. [7] Describe the system of land tenancy in rural area. [5] b)

Q5) a)	Critically examine the christaller's theory.	[7]
b)	Describe the various factors affecting rural house types with the	ne suitable
	examples.	[5]

[7]

- Q6 a) What is morphogenesis? Explain the Socio-cultural morphogenesis of rural settlements. [7]
 - b) Describe the rural house types in Maharashtra. [5]
- Q7) Write short notes any two of the following. [12]
 - Ricardo's theory of land use. a)
 - Building material used for rural houses. b)
 - Age-sex and occupational composition of rural population. c)



Total No. of Questions : 5]	SEAT No. :
PA-3301	[Total No. of Pages : 2
[59	14]-30
M.A	./M.Sc.
Geo	graphy
GGDT-130: Geo	graphy Of Tourism
(0040 D //) (00 C 11/ C	

(2019 Pattern) (02 Credit Course) (Semester - II) (CBCS)

Time: 2 Hours] [Max. Marks: 35]

Instructions to the candidates:

b)

- 1) Q. No.1 is compulsory.
- 2) Solve any Three questions from Q.2 to Q.5.

3) Que - 2 to Que - 5 carry equal marks. Q1) Solve any Five of the following: [5] Define 'eco - tourism'. a) State any two name of beaches in India. b) c) State any two names of Historical tourist places in India. Define 'Hotels'. d) Give any two advantages of air transportation in tourism activity. e) State any two names of religious tourist places in India. f) Describe the impact of tourism on national economy. **Q2**) a) [6] Explain the impact of climate on tourism. [4] b) Explain the purpose of tourism. **Q3**) a) **[6]**

Explain the differences between tourist & tourism.

[4]

Q4) a) 'Tourism as a basic need of mankind.' Discuss.

[6]

b) Distinguish between hotels and youth hostels.

[4]

Q5) Write short notes on <u>any Two</u> of the following:

[10]

- a) Dharmashala.
- b) Beaches: Ganpatipule.
- c) Agro Tourism



Total No.	\mathbf{of}	Questions	:	5]
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PA-3302

SEAT No.	:	

[Total No. of Pages: 2

[5914]-30A M.A./M.Sc. - I GEOGRAPHY

GGDT-132: Geography of Disaster Management (2019 Pattern) (CBCS) (Semester - II)

Time	: 2 F	Hours]	[Max. Marks: 35
Instru	ıctioi	ns to the candidates:	
	 1) 2) 3) 	Q.1 is compulsory. Solve any three questions from Q.2 to Q.5. Q.2 to 5 carry equal marks.	
Q 1)	Sol	lve any five of the following:	[5]
	a)	Define hazard.	
	b)	What do you mean by disaster resilience?	
	c)	Define Volcano.	
	d)	What is cyclone?	
	e)	Define first aid.	
	f)	Give any two examples of manmade disaster.	
Q 2)	a)	Explain the causes and effects of earthquakes?	[6]
	b)	State the effects of fire?	[4]
Q 3)	a)	Describe the use of remote sensing in disaster manage	ment. [6]
	b)	Which are the phases of disaster cycle?	[4]

Q4) a) Describe the role of armed forces in disaster management. [6]

b) What is the difference between Vulnerability and risk.

[4]

Q5) Write short notes on any two of the following: [10]

- a) Use of GPS in disaster management.
- b) Role of NGO's in disaster management.
- c) Natural disasters.



Total No.	of Questions	:	7]
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[Total No. of Pages : 2

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[5914]-31

M.A./M.Sc. (Part - II) GEOGRAPHY

GGUT-235: GEOINFORMATICS-II

(2019 Pattern) (Semester - III) (Credits 4) (Theory)

 Instructions to the candidates: Question 1 is compulsory. Solve any five questions from Q.2 to Q.7. Question 2 to Q.7 carry equal marks. 	
Q1) Solve any five of the following.	[10]
a) Give the range of visible spectrum in EMR.	
b) What is meant by radiation?	
c) What are sun-synchronous satellites?	
d) What is meant by push broom scanner?	
e) Define Temporal resolution.	
f) What si meant by Nadir Point?	
Q2) a) Describe the components of Remote sensing.	[7]
b) Explain interaction of EMR with Earth's surface.	[5]
Q3) a) Describe Remote sensing platforms.	[7]
b) Discuss the LANDSAT series of satellites.	[5]
Q4) a) Describe Active & passive sensors.	[7]
b) Explain Spatial resolution.	[5]

Q 5)	a)	Explain the elements of image interpretation.	[7]
	b)	Describe the vertical & oblique photograph.	[5]
Q6)	a)	Explain the different films used in aerial camera.	[7]
	b)	Explain across-track scanners.	[5]
Q7)	Writ	e short notes (any two):	[12]
	a)	Fiducial marks.	
	b)	SPOT satellites.	
	c)	LISS satellite sensors.	

Total No. of	Questions	:	7]
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[5914]-32 M.Sc.

GEOGRAPHY

GGUT-236: Geographical Thoughts

		(2019 Pattern) (Credit System) (4 Credits) (Semester-	·111 <i>)</i>
Time	: 3	Hours] [1	Max. Marks : 70
Instr	ucti	ons to the candidates:	
	<i>1</i>)	Q.1 is compulsory.	
	2)	Solve any five questions from Q. 2 to Q. 7.	
	<i>3</i>)	Question 2 to 7 carry equal marks.	
Q 1)	So	lve any five of the following.	[10]
	a)	Write the name of the books written by Immanuel Kant.	
	b)	Write any two names of Roman school of thought.	
	c)	What do you mean by natural hazards.	
	d)	Wha is resource?	
	e)	Write any two names of computer based techniques in Ge	ography.
	f)	Write the name of any two American Geographer.	
Q 2)	a)	Describe brief account of German school.	[7]
	b)	Explain the contribution of Indian school of thoughts.	[5]
Q 3)	a)	Write a brief account of contribution of Humboldt.	[7]
	b)	Explain the role of statistical techniques in Geography.	[5]
Q 4)	a)	Describe the use of G.I.S. and Geoinformatics in Geograp	ohy. [7]
	b)	Explain the need and significance of regional planning.	[5]
Q 5)	a)	Describe the paradigms in Geography.	[7]
	b)	Explain the contribution of W.M. Davis in the Dev geographical thought.	velopment of [5]

Q6)	a)	Describe Determinism and possibilism.	[7]
	b)	Dicuss the field survey process in Geography.	[5]
Q 7)	(27) Write short notes on any two of the following.		
	a)	Systematic versus regional Geography	
	b)	Remote sensing	
	c)	Regional planning	



Total No.	of Questions	:	7]
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[5914]-33

M.A./M.Sc. (Part-II) GEOGRAPHY

GGUT-237 : Tropical Geomorphology

(CBCS 2019 Pattern) (Semester-III) (Credits-4) (Theory)

Time: 3 Hours] [Mo		ax. Marks : 70	
Instructi	ions to the candidates:		
1)	Question 1 is compulsory.		
2)	Attempt any five questions from Q.2 to Q.7.		
3)	Questions 2 to Q.7 carry equal marks.		
<i>Q1</i>) So	olve any five of the following.	[10]	
a)	Define morphogenetic regions.		
b)	Types of weathering.		
c)	Name the landforms developed on the lateritic terrain.		
d)	Types of mass movements.		
e)	What is duricrust?		
f)	Define stream erosion.		
Q2) a)	Describe 'how tropical conditions are different then other regions.	[7]	
b)	What is clay mineral? Explain different types clay minerals.	[5]	
Q3) a)	Explain how tropical rivers differ from nontropic rivers.	[7]	
b)	Discuss the properties of indurated laterite and their effects on late profile.	erite [5]	
Q4) a)	Explain how tropical landscape changed during quaternary period.	[7]	
b)	Differentiate between pediplain an peneplain.	[5]	

Q 5)	a)	Explain processes of chemical denydation.	[7]
	b)	Describe effects of tectonics and climate change on tropical landfo development.	orm [5]
Q6)	a)	Explain different types fo inselbers.	[7]
	b)	Describe the formation and types of planation surfaces.	[5]

- Q7) Write short notes on any two of the following. [12]
 - a) Deep weathering profile.
 - b) Morphogenetic regions.
 - c) Tropical Coast.



Total No.	of Questions	:	7]
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[5914]-34 M.A./M.Sc. - II **GEOGRAPHY**

GGUT-238: Applied Climatology

(2019 Pattern) (Semester-III) (Credits-4) (CBCS)

Time: 3 Hours 1 [Max. Marks: 70] Instructions to the candidates: Question 1 is compulsory. Solve any five questions from Q.2 to Q.7. *2*) Questions 2 to Q.7 carry equal marks. *3*) Use of map stencil is allowed. *4*) Q1) Write the answers of the following questions in about 20 words (any 5). [10] Differentiate between weather and climate. a) b) Name the instruments used to measure precipitation. Give any two reasons of urban air pollution. c) d) State any two factors affecting on evapotranspiration. Define urban heat island. e) f) Give any two climatic parameters which affect air transport. **Q2**) a) Explain the scope of applied climatology. [7] Describe various forms of precipitation. b) [5] *Q3*) a) Describe the influence of climate on human health. [7] Explain the concept of bio-meteorology. [5] b) Explain the characteristics of urban climate. [7] **Q4**) a) Describe the relationship between construction operations and climate.[5] b)

- **Q5**) a) Describe the nature of global environment change. [7]
 - b) Differentiate between heating degree days and cooling degree days. [5]
- **Q6)** a) Explain the effect of climate on water transport. [7]
 - b) Describe the applications of remote sensing in detection of plant stress.[5]
- Q7) Write short notes on any two of the following. [12]
 - a) Nature of applied climatology.
 - b) Estimation of evapo transpiration.
 - c) Climate and soil management.





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[5914]-35 M.A./M.Sc. - II **GEOGRAPHY**

GGUT-239: Geography of Rural Development (2019 Pattern) (Semester-III) (Credits-4)

Time: 3	Hours] [Max. Marks : 70	9
1) 2) 3)	ions to the candidates: Question 1 is compulsory. Solve any five questions from Q.2 to Q.7. Questions 2 to 7 carry equal marks.	
<i>Q1</i>) Sc	olve any five of the following: [10]]
a)	Define the term rural development.	
b)	What do you mean by planning?	
c)	Write the work of NGO's in rural development.	
d)	What are rural basic services?	
e)	Define the term e-agriculture?	
f)	What is MGNREGA?	
Q2) a)	Explain Geographical factors affecting on rural development. [7]]
b)	Describe the role of transportation & communication in rural development.[5]]
Q3) a)	Discuss the process of multi level planning. [7]]
b)	Explain the Nature & scope of rural development. [5]]
Q4) a)	Describe the role government in rural development. [7]]
b)	Explain integrated rural development program. [5]]
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Q 5)	a)	Describe role of Panchayat Raj in rural development.	[7]
	b)	Explain the rural housing & rural health.	[5]
Q6)	a)	Discuss the prospects of rural development in India.	[7]
	b)	Explain the role of cantographic techniques in rural development.	[5]
Q 7)	Writ	e short notes on any two of the following.	[12]
	a)	Smart village.	
	b)	Ralegam siddhi.	
	c)	NABARD.	

Total No.	of Questions	:	7]
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[5914]-36 M.A./M.Sc. -II GEOGRAPHY

GGUT-240: Urban Geography

		(2019 Pattern) (Semester-III) (Credits-4) (Theory)	
Tim	e:3	Hours] [Max. Marks	: 70
Inst	ructi	ons to the candidates:	
	1) 2) 3)	Question 1 is compulsory. Solve any five questions from Q.2 to Q.7. Questions 2 to Q.7 carry equal marks.	
Q 1)) So	lve any five of the following:	10]
	a)	What is market principle?	
	b)	Give any two significance of urban studies.	
	c)	Concept of city region.	
	d)	Define urban Geography.	
	e)	What is urban fringe?	
	f)	Name any two urban transport problems.	
Q2)	a)	Explain the inter-disciplinary approach of urban Geography.	[7]
	b)	Elaborate meaning of urban settlement and concept of urbanization.	[5]
Q 3)	a)	Explain the sector theory of morphological pattern of cities.	[7]
	b)	Explain administrative and defence function of any town in India.	[5]
Q 4)) a)	Criticze the christaller's concept of central place.	[7]
	b)	"An Independent city cannot exist"-Justify.	[5]

Q 5)	a)	Explain urban development policies in India.	[7]
	b)	State the 'Price of land' and 'vertical growth' problems in cities?	[5]
Q6)	a)	Which are the contemporary factors urbanization.	[7]
	b)	Which are the elements of city plan?	[5]
Q 7)	Writ	e short notes on any two of the following.	[12]
	a)	Age sex demographic structures in urban areas.	
	b)	Significance of centrol place theory.	
	c)	Function of CBD.	







Total No. of Questions : 5]	SEAT No. :
PA-3309	[Total No. of Pages :

[5914]-37 M.A./M.Sc. - II GEOGRAPHY

GEOGRAPHY GGUT - 242 : Hydrology (2010 CRCS Pottorn) (Credit, 02) (Somestor, III)				
Time : 2 Instructi	(2019 CBCS Pattern) (Credit - 02) (Semester Hours] tons to the candidates:	- 111) [Max. Marks : 35		
1) 2) 3)	Question 1 is compulsory. Solve any three question from Q.No. 2 to Q.No.5. Question No. 2 to 5 carry equal marks.			
<i>Q1</i>) So	lve any five of the following.	[5]		
a)	Define 'Hydrology'.			
b)	Give units of measurement for precipitation.			
c)	What is mean by interception?			
d)	Write definition of evaporation.			
e)	What is mean by 'Hail'.			
Q2) a)	Describe the Hydrologic budget.	[6]		
b)	Explain the concept of probable maximum precipitation	. [4]		
Q3) a)	Write the sources of hydrologic data.	[6]		
b)	Describe any two units of hydrologic measurement.	[4]		

Q4) a) Write the factors affecting on interception.

[6]

b) Explain the methods of transpiration control.

[4]

Q5) Write short notes on any two of the following.

[10]

- a) Forms of precipitation.
- b) Factors affecting on depression storage.
- c) Evapotranpiration.



Total No. of Questions : 5]

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SEAT No. :

[Total No. of Pages : 2]

[5914]-38 M.A./M.Sc. - II GEOGRAPHY

		GEOGRAPHY	
		GGUT-243: Watershed Management	
		(2019 Pattern) (Semester - III) (CBCS)	
		Hours] [Max. Mations to the candidates: Question no.1 is compulsory. Solve any three questions from Q.No. 2 to Q.No.5. Question No. 2 to 5 carry equal marks.	rks : 35
Q1 ,) So	lve any five of the following.	[5]
	a)	Define 'watershed management'.	
	b)	Which are the artificial barriers in watershed delineation.	
	c)	What do you mean by surface run off?	
	d)	Define the 'Precipitation'.	
	e)	Define the Integrated watershed development plan.	
	f)	What is mean by 'micro watershed'?	
Q2 ,) a)	Explain the necessity of watershed management.	[6]
	b)	Describe the land use and land cover characteristic of watershed.	[4]
02	(ه ۱		
ys,	a)	Explain the importance of watershed management in national development	ગા ા [0]
	b)	Write a note on interception and infiltration.	[4]
			PTO

- Q4) a) Describe the methods of water conservation. [6]
 - b) Explain the principles of watershed management. [4]
- Q5) Write short notes on any two of the following. [10]
 - a) Applications of remote sensing and GIS in watershed management.
 - b) Methods of watershed delineation.
 - c) Contour bunding and gully plugging.



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[Total No. of Pages: 2

[5914]-41

M.A./M.Sc. (Part - II)

GEOGRAPHY **GGUT 249:** Geography of India (2019 Pattern) (Semester - IV) (Credits - 4) Time: 3 Hours] [Max. Marks: 70] Instructions to the candidates: 1) Q. 1 is compulsory. Solve any Five Q. from Q.2 to 7. 2) Q.2 to 7 carry equal marks. 3) Use of map stencils is allowed. **4**) **Q1**) Solve any Five of the following: [10] Name the regional divisions of India. a) Write the source of river Godavari. b) c) Name any two flood prone regions in India. State any two factors of soil degradation in India. d) e) Write any two components of green revolution in India. List the major Hydro-electric power projects in India. f) Write the major west flowing river of India and describe any one of **Q2**) a) them. [7] What are the major problems of deforestration in India. [5] b) **Q3**) a) Explain the mechanisms and associated weather conditions of Indian monsoon. [7]

Write the regions and production of major crops in India.

[5]

Q4)	a)	Discuss the need and methods of soil conservation in India.	[7]
	b)	Write the distribution and utilization of Iron ore minerals in India.	[5]
Q 5)	a)	Write in details the problems of Industrial development in India.	[7]
	b)	State the major environmental factors affecting on Indian agriculture	e.[5]
Q6)	a)	Describe the major Forest types and their distribution in India.	[7]
	b)	Write the characteristics of Indian Northern plain.	[5]
Q 7)	Write	e short notes (any two):	[12]
	a)	Strategic location of India.	
	b)	Population composition of India.	
	c)	Impact of El-Nino on Indian monsoon.	

Total No. of Questions: 7]	SEAT No.:
PA-3312	[Total No. of Pages : 2

[5914]-42

	M.A./M.Sc. GEOGRAPHY GGUT - 250 : Oceanography (2019 Pattern) (Semester - IV) (Credits : 04)			
		Iours] [Max. Marks : 70 ons to the candidates: Question 1 is compulsory. Answer any 5 questions from Q.2 to Q.7. Questions 2 to 7 carry equal marks.		
Q 1)	Solv	ve any five of the following. [10]		
	a)	Define oceanography.		
	b)	Who proposed the theory of continental drift?		
	c)	Name any two oceanic plates of the world.		
	d)	What is a convergent plate boundary?		
	e)	What is abyssal plain?		
	f)	Define the term Halocline.		
Q2)	a)	Discuss in brief the foundation of Modern Oceanography. [7]		
	b)	Explain the origin of world oceans. [5]		
Q 3)	a)	Give a brief account of seafloor spreading with respect to the origin o ocean basins. [7]		
	b)	Discuss the formation of coral reefs. [5]		
Q 4)	a)	Explain the types of continental margins. [7]		
	b)	Discuss the role of volcanoes in the formation of oceanic landforms. [5]		

Q 5)	a)	Elaborate on the origin and composition of sea salts.	[7]
	b)	Write in brief about natural gas as one of the significant ocean resources	s. [5]
Q6	a)	Discuss the nature of lithogenous sediments.	[7]
	b)	Explain ocean pollution and their characteristics.	[5]
Q 7)	Writ	te short notes (any two)	[12]
	a)	Causes of oceanic pollution	
	b)	Post-war oceanography	



c) Oceanic ooze

Total No. of Questions: 7]

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SEAT No.	:

[Total No. of Pages: 2

[5914]-43

M.A./M.Sc (Geography) **GGUT-251 Research Methodology**

(2019 Pattern) (Semester - IV) Time: 3 Hours] [Max. Marks : 70] Instructions to the candidates: 1) O. No.1 is compulsory. 2) Solve any Five questions from Q.2 to Q.7. 3) Que - 2 to Que - 7 carry equal marks. Q1) Solve any Five of the following: [10] What is footnotes? a) Define 'Hypothesis'. b) c) Name any two statistical tests used in research. State any two characteristics of a good questionnaire. d) Enlist types of research. e) What is Median? f) **Q2**) a) Describe Significance of research ethics. [7] Write importance of Keywords in research article [5] b) **03**) a) Discuss characteristics of an interview. [7] What is variable? Explain its types. [5] b)

Q4)	a)	What is plagiarism? How do you avoid plagiarism?	[7]
	b)	Explain time series analysis.	[5]
Q 5)	a)	Describe purpose of research design.	[7]
	b)	Differentiate between sample and population.	[5]
Q6)	a)	Explain importance of formulating a research problem.	[7]
	b)	Discuss how research methods are useful in research.	[5]
Q 7)	Wri	te short notes on <u>any Two</u> of the following:	[12]
	a)	Chi-square Test	
	b)	Fieldwork methods.	
	c)	Dissertation.	



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[Total No. of Pages: 2

[5914]-44

M.A./M.Sc. (Part - II) GEOGRAPHY

GGUT - 252 : Geography of Soils (2019 Pattern) (Semester - IV) (2 Credit)			
Time	e:21	[Max. Marks: 35	
Instr	uctio	ns to the candidates:	-
	<i>1</i>)	Question no 1 is compulsory.	
	<i>2</i>)	Solve any three questions from Que No 2 to Que No 5.	
	3)	Question No. 2 to 5 carry equal marks.	
Q 1)	Any	five out of six:	[5]
	a)	Define soil	
	b)	Write any two factors that affect soil.	
	c)	Which are the three layers of the soil?	
	d)	Define soil profile.	
	e)	What are the physical properties of the soil?	
	f)	Name nutrients in the soil.	
Q 2)	a)	Describe the nature of soil Geography.	[6]
	b)	Write a note on development of soil geography.	[4]
Q 3)	a)	Explain the factors affecting soil formation.	[6]
	b)	Write note on role of topography in formation of soil.	[4]
Q 4)	a)	Discuss the mineral component of the soil.	[6]
⊻ ₹)		•	
	b)	Write a note on physical characteristics of the soil.	[4]

Q5) Any two of the following (any two):

[10]

- a) Define soil and discuss the role of soil as a natural resource.
- b) Explain the process of soil formation.
- c) Discuss the nutrients in soil.



SEAT No.	:	

[Total No. of Pages: 2

[5914]-45

M.A/M.Sc. (Geography) **GGUT - 254 : POLITICAL GEOGRAPHY** (2019 Pattern) (Semester - IV) (CBCS) (Credit 2) Time: 2 Hours] [*Max. Marks* : 35 Instructions to the candidates: Question No.1 is compulsory. 2) Solve any three questions from Q.No.2 to Q.No.5 Question No.2 to 5 carry equal marks. *3*) Use of map stencil is allowed. 4) Draw figures/map wherever necessary. 5) Q1) Solve any Five of the following: [5] What is nationalism? a) Who is the father of political geography? b) Define geopolitics. c) Write any two examples of interstate water dispute in India. d) Define Heartland. e) Explain the significance of political geography. **Q2**) a) [6] Elaborate the process of nation building. [4] b) Explain the morphological classification of boundaries. *Q3*) a) [6] Discuss the concept of modern geopolitics. [4] b)

Q4) a) Describe the geopolitical significance of Indian ocean. [6]

b) Write a note on changing political map of India.

[4]

Q5) Write short notes on any two of the following: [10]

- a) Problems of border states in India.
- b) Recent trends in political geography.
- c) Frontiers and boundaries.



[5914]-45

SEAT No.:	
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[Total No. of Pages : 2

[5914]-46

M.A./M.Sc. (Part - II) **GEOGRAPHY**

GGUT-255: Regional Planning

(2019 Pattern) (CBCS) (Semester - IV) Time: 2 Hours] [*Max. Marks* : 35 Instructions to the candidates: Question No. 1 is compulsory. 1) Solve any three questions from Q. No. 2 to Q. No. 5. 2) Question No. 2 to 5 carry equal marks. 3) Use of map stencil is allowed. 4) Draw figures/map wherever necessary. 5) Q1) Solve any five of the following: [5] What is planning hierarchy? a) What is planning region? b) Enlist the surveys in regional planning. c) What is regional disparity? d) e) Write any two Government schemes for tribal development in India. What is Block level planning? f) **Q2**) a) Describe the need of planning. [6] Elaborate the concept of region. [4] b) **Q3**) a) Discuss technoeconomic survey. **[6]** Enlist the various type of region. b) [4]

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Q4)	a)	Describe the planning for metropolitan region.	[6]	
	b)	Explain the causes of regional disparity in India.	[4]	
Q 5)	Q5) Write short notes on any two of the following:			
	a)	Indicators of Development.		
	b)	Command area planning.		
	c)	State level planning.		

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Total No.	of Questions: 7]	SEAT No. :
PA-33	1 7	[Total No. of Pages : 2
1 A-33	[5914]-47	
	M.A./M.Sc. (Part	- II)
	GEOGRAPHY	,
	GGUT - 258 : Geograph	
(2	2019 Pattern) (Semester - IV) (
Time: 3	, ,	[Max. Marks: 70]
	ons to the candidates:	[Hamilian in the second of the
1)	Q.1 is compulsory.	
2)	Solve any five questions from Q.2 to Q.7.	
3)	Q.2 to Q.7 carry equal marks.	
4)	Use of Map stencils is allowed.	
Q1) Sol	ve any Five of the following:	[10]
a)	What is 'Geological Time Scale'.	
b)	What is World Trade Organization.	
c)	Explain major characteristics of solar	system.
d)	Define Pandemic.	
e)	Enlist the names of continents and ma	jor Oceans.
f)	What do you mean by International M	Monetary Fund (IMF)

[7]

[7]

[5]

b) Describe the major river systems of North America.

Explain the impact of Global Warming.

Describe the climate of South Asia.

Q2) a)

b)

[5]

Q4)	a)	Describe the Big bang theory.	[7]
	b)	Write a brief about physiography of India.	[5]
Q 5)	a)	Discuss the impact of covid - 19 Pandemic.	[7]
	b)	Give an account on population distribution of Australia.	[5]
Q6)	a)	Give an account on major border disputes in the world.	[7]
	b)	Write details about concept of climate change.	[5]
Q 7)	Writ	te short notes on any Two of the following:	[12]
	a)	Poverty in the world.	
	b)	Terrorism.	
	c)	Rural to Urban Migration.	

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