

Total No. of Questions : 7]

SEAT No. :

P413

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[5835]-101

M.A./M.Sc. (Semester - I)

GEOGRAPHY

GGUT - 111 : Principles of Geomorphology  
(2019 Pattern)

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions 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 to map stencil is allowed.*

**Q1)** Solve **any Five** of the following (Around 20 words each):

**[10]**

- a) Coastal processes of erosion.
- b) Barchan dunes.
- c) Braches of geomorphology.
- d) Surface seismic waves.
- e) Define weathering and mass movement.
- f) Glacial striations.

**Q2)** a) Explain folds and associated of landforms.

**[7]**

- b) Describe internal structure of the Earth based on physical and chemical properties.

**[5]**

**P.T.O.**

- Q3)** a) Write a note on plate boundaries and associated landforms. [7]  
b) Describe biological weathering processes. [5]
- Q4)** a) What is the L.C. King's model of hill slope development? [7]  
b) Describe types of fluvial depositional landforms with diagrams. [5]
- Q5)** a) Describe glacial erosional landforms with diagrams. [7]  
b) Write a note on work of water in desert. [5]
- Q6)** a) Describe coastal erosional landforms with diagrams. [7]  
b) What is history of geomorphology? [5]
- Q7)** Write short notes **any Two** of the following : [12]  
a) Types of mass movement.  
b) Valley and continental glaciers.  
c) Coastal depositional landforms.



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P414

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[5835]-102

M.A/M.Sc. - I

GEOGRAPHY

GGUT 112 : Principles of Climatology

(2019 Pattern (CBCS)) (Semester - I)

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Question No. 1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

**Q1)** Solve **any Five** of the following :

**[10]**

- a) Define Climatology.
- b) What is heat budget of the earth?
- c) What is mean by temperature inversion?
- d) What is an air mass?
- e) Define hydrologic cycle.
- f) What is local wind?

**Q2)** a) Explain the nature and scope of Climatology.

**[7]**

b) Discuss the factors affecting insolation.

**[5]**

**P.T.O.**

- Q3)** a) Describe types of temperature inversion. [7]  
b) Explain the factors affecting distribution of air pressure. [5]
- Q4)** a) Explain the models of general circulation of the atmosphere with suitable diagram. [7]  
b) Define cyclones. Write the characteristics of cyclones. [5]
- Q5)** a) Explain the forms of condensation in detail. [7]  
b) Discuss the various types of lapse rate. [5]
- Q6)** a) What is mean by atmospheric stability? Explain the absolute stability in detail. [7]  
b) Explain the various types of fronts. [5]
- Q7)** Write short notes on **any Two** of the following : [12]  
a) Tropical climatology.  
b) Jet stream.  
c) Types of precipitation.



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P415

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[5835]-103

M.A/M.Sc. - I (Semester - I)

GEOGRAPHY

**GGUT - 113 : Principles of Economic Geography  
(2019 Pattern (CBCS))**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Question 1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use to map stencil is allowed.*

**Q1) Solve any Five of the following :**

**[10]**

- a) What is an economic activity?
- b) Explain the concept of economic development.
- c) What is green revolution?
- d) State the principal of Myrdal's Model.
- e) Define privatization.
- f) What is behavioural approach?

**Q2) a) Describe emerging trends in economic geography.**

**[7]**

- b) State the importance of non-conventional energy resources for sustainable development.

**[5]**

**P.T.O.**

- Q3)** a) Discuss the impact of globalization on regional development. [7]  
b) Justify the importance of transport cost in industrial location. [5]
- Q4)** a) Discuss regional approach and commodity approach in the study of economic geography. [7]  
b) Explain various modes of transportation and their relation with economic development. [5]
- Q5)** a) Discuss the need of new green revolution in India. [7]  
b) Critically evaluate Rostow's Model. [5]
- Q6)** a) Describe major characteristics of under-developed and developed countries. [7]  
b) Explain Von Thunen's Model. [5]
- Q7)** Write short notes on **any two** of the following : [12]  
a) Means of communication.  
b) Primary economic activity.  
c) India's post-independence economic development.



Total No. of Questions : 7]

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P416

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M.A/M.Sc. - I

GEOGRAPHY

GGDT 114 : Principles of Population and Settlement Geography

(2019 Pattern (CBCS)) (Semester - I)

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

**Q1)** Solve any Five of the following :

[10]

- a) What is baby boom?
- b) Define population growth.
- c) What is urban place?
- d) What is dispersion?
- e) Define sex ratio.
- f) Define Migration.

**Q2)** a) Explain the physical factors affecting distribution of population.

[7]

b) Describe the types of settlement.

[5]

*P.T.O.*

- Q3)** a) Discuss the Malthus theory of population growth. [7]  
b) Justify the components of population growth. [5]
- Q4)** a) Describe the social factors influencing nucleation and dispersion. [7]  
b) Explain the religious and linguistic composition of population. [5]
- Q5)** a) Describe the factors affecting sex ratio. [7]  
b) Explore the urban settlement hierarchy. [5]
- Q6)** a) Explore the level and trend of Mortality in India. [7]  
b) Explain the development of settlement geography. [5]
- Q7)** Write short notes on **any Two** of the following : [12]  
a) Concept of ageing of population.  
b) Site and situation aspect in settlement.  
c) Measures of literacy.





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[5835]-201

M.A/M.Sc. - I

GEOGRAPHY

GGUT 121 : Geoinformatics - I

(2019 Pattern) (CBCS) (Semester - II)

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

**Q1)** Solve **any Five** of the following :

**[10]**

- a) Explain the concept of GIS.
- b) What is SQL?
- c) What do you understand by non spatial data?
- d) State objective of GIS.
- e) Enlist the element of GIS.
- f) Mention spatial data models in GIS.

**Q2)** a) Give an advantages of DBMS.

**[7]**

b) Explain the raster format, give its advantages.

**[5]**

**P.T.O.**

- Q3)** a) Describe the vector database. [7]  
b) Explain logical relationship in database. [5]
- Q4)** a) Describe the types of DBMS. [7]  
b) Discuss the grid operation in map algebra. [5]
- Q5)** a) Give an account of basics of GIS. [7]  
b) Explain the type of digitization. [5]
- Q6)** a) Give an account of grid operations in GIS. [7]  
b) Compare the raster and vector data model. [5]
- Q7)** Write short notes on **any Two** of the following : [12]  
a) Manual digitization.  
b) Digitization errors.  
c) SQL.



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P418

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M.A/M.Sc. - I (Semester - II)

GEOGRAPHY

GGUT - 122 : Coastal Geomorphology  
(2019 Pattern) (CBCS)

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Question No. 1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

**Q1)** Solve **any Five** of the following :

**[10]**

- a) What is spatial scales in coastal geomorphology?
- b) Define wave frequency.
- c) What is mean by neap tide?
- d) What is transgression of sea level?
- e) Define sea arches.
- f) Write any two method of coastal conservation.

**Q2)** a) Give an account of Coastal Classification.

**[7]**

b) Explain tides and coastal landforms in detail.

**[5]**

**P.T.O.**

- Q3)** a) Explain the various types of waves in detail. [7]  
b) Discuss tides in bays and estuaries. [5]
- Q4)** a) Explain causes and consequences of sea level change in detail. [7]  
b) Discuss the indicators of former sea level change. [5]
- Q5)** a) Define coastal sediments. Explain the properties of coastal sediments. [7]  
b) Write a note on classification of coastal deltas. [5]
- Q6)** a) Write a note on wet lands, khar lands and estuarine reclamation. [7]  
b) Explain coastal policies and plans in detail. [5]
- Q7)** Write short notes on **any Two** : [12]  
a) Write a note on coastal classification.  
b) Equilibrium theory of tide.  
c) Coastal Regulation Zone.



Total No. of Questions : 7]

SEAT No. :

P419

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[5835]-203

M.A/M.Sc. - I (Semester - II)

GEOGRAPHY

GGUT - 123 : Synoptic Climatology  
(2019 Pattern) (CBCS) (Credit 4)

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q.No. 1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Questions 2 to 7 carry equal marks.*

**Q1)** Solve any Five of the following :

**[10]**

- a) What do you mean by climatological synthesis?
- b) Define 'Air Mass'.
- c) What do you mean by hurricane?
- d) What is Rossby waves?
- e) What is warm front?
- f) What do you mean by 'eye of cyclone'?

**Q2)** a) Define synoptic climatology and describe its nature and scope.

**[7]**

b) Give an account of Tornadoes development.

**[5]**

**P.T.O.**

- Q3)** a) Explain structure and dissipation of tropical cyclone. [7]  
b) Describe the approaches of synoptic climatology. [5]
- Q4)** a) Discuss air masses of North America. [7]  
b) Write a note on Heat & Cold waves. [5]
- Q5)** a) Discuss classification of clouds. [7]  
b) Describe idealized weather of wave cyclone. [5]
- Q6)** a) Describe the importance of satellites weather fore casting. [7]  
b) Write a note on application of synoptic climatology in Pollution Studies. [5]
- Q7)** Write short notes on **any Two** of the following : [12]  
a) Laws of Motion.  
b) Frontal Weather.  
c) Application of Synoptic Climatology.



Total No. of Questions : 7]

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P420

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M.A/M.Sc. - I (Semester - II)

GEOGRAPHY

GGUT - 124 : Agricultural Geography  
(2019 Pattern) (CBCS)

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q. 1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

**Q1)** Solve any Five of the following :

**[10]**

- a) What is regional approach?
- b) Enlist the types of agriculture.
- c) Give any four characteristics of Jhum cultivation.
- d) What is a famine?
- e) Define plantation agriculture.
- f) Mention geographical characteristics of Cotton region in India.

**Q2)** a) Explain the influence of transport on agriculture.

**[7]**

b) Give the characteristics of intensive subsistence farming.

**[5]**

**P.T.O.**

- Q3)** a) Explain the role of agro-based industries in regional development. [7]  
b) Justify the use of technology in commercial grain farming. [5]
- Q4)** a) Write a note on horticulture. [7]  
b) Describe agricultural productivity in India. [5]
- Q5)** a) Explain the agricultural regions of India. [7]  
b) Discuss the social factors influencing agriculture. [5]
- Q6)** a) Explain Kendall's method of measuring agricultural efficiency. [7]  
b) Discuss recent changes in Indian agriculture. [5]
- Q7)** Write a short note on **any Two** of the following : [12]  
a) India's national agricultural policy.  
b) Agro - forestry.  
c) Plantation agriculture.





Total No. of Questions : 7]

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M.A./M.Sc. (Geography)

**GGUT - 125: POPULATION GEOGRAPHY**

**(2019 Pattern) (Semester - II) (CBCS)**

*Time : 3Hours]*

*[Max. Marks : 70*

*Instructions to the candidates :*

- 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.*

**Q1) Solve any five of the following:**

**[10]**

- a) Define population geography.
- b) Define mortality.
- c) What is population distribution?
- d) Define internal migration?
- e) Define morbidity.
- f) What is NFHS data?

**Q2) a) Describe the determinates of population growth.**

**[7]**

b) Explain the mortality trends in India.

**[5]**

**Q3) a) Discuss the factors affecting on population distribution.**

**[7]**

b) Describe the economic population composition.

**[5]**

**Q4) a) Explain the factors affecting on fertility.**

**[7]**

b) Critically examine the Malthus theory.

**[5]**

*P.T.O.*

- Q5)** a) Explain the push factors of migration. [7]  
b) Describe the optimum population theory. [5]
- Q6)** a) Describe the demographic transition model. [7]  
b) Explain the relation between population and development. [5]
- Q7) Write short notes on any two of the following:** [12]
- a) Nature of population geography.  
b) Population policy of India - 2020.  
c) Human Development Index.



Total No. of Questions : 7]

SEAT No. :

P422

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**[5835] - 206**  
**M.A./M.Sc - I**  
**GEOGRAPHY**  
**GGUT - 126 : Fluvial Geomorphology**  
**(2019 Pattern) (Semester - II) (CBCS) (Credit - 4)**

*Time : 3Hours]*

*[Max. Marks : 70*

*Instructions to the candidates :*

- 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.*

**Q1) Solve any five of the following (Around 20 words each):** **[10]**

- a) Define fluvial geomorphology.
- b) What is tractive force?
- c) What do you mean by abrasion and attrition?
- d) Define sediment yield.
- e) Explain river discharge (Q) with formula.
- f) Explain stream power ( $\omega$ ) with formula.

**Q2) a)** Explain any four erosional landforms of the bedrock channels with suitable diagrams. **[7]**

b) Distinguish between the uniform flow and non - uniform flow with suitable diagram. **[5]**

**Q3) a)** What are different types of channel patterns/planforms? Explain the braided channel pattern in detail with suitable diagram. **[7]**

b) What is the concept of grade? Explain the long profile below, near and above grade conditions in brief. **[5]**

*P.T.O.*

- Q4)** a) Explain the mechanism of runoff generation and its types with suitable diagram. [7]  
b) Explain the modes of sediment transport in rivers. [5]
- Q5)** a) Explain the Horton's laws of drainage composition. [7]  
b) Describe the types of river load. [5]
- Q6)** a) Define floodplains and describe various landforms associated with floodplain. [7]  
b) What is delta? Explain any two types of river delta with suitable diagram and examples. [5]
- Q7) Write short notes on any two of the following:** [12]  
a) Downstream hydraulic geometry.  
b) Scope of fluvial geomorphology.  
c) Quaternary fluvial systems.



Total No. of Questions : 7]

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P423

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**[5835] - 207**  
**M.A./M.Sc (Part - I)**  
**GEOGRAPHY**  
**GGUT- 127: Monsoon Climatology**  
**(2019 Pattern) (Semester - II) (CBCS)**

*Time : 3Hours]*

*[Max. Marks : 70*

*Instructions to the candidates :*

- 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.*

**Q1) Solve any five of the following:**

**[10]**

- a) What is monsoon climatology?
- b) Name the two branches of south - west monsoon that produce precipitation over India.
- c) Define 'Depression'.
- d) What is walker circulation?
- e) Enlist the models of Monsoon forecasting.
- f) What is the longform of 'IIOE'?

**Q2) a) Write economic importance of Monsoon.**

**[7]**

b) Explain Aerological concept of origion of Monsoon.

**[5]**

**Q3) a) Explain Realistic 'Monsoon model'.**

**[7]**

b) Write note on E1 - Nino.

**[5]**

*P.T.O.*

- Q4)** a) Discuss semi - permanent systems of Indian Monsoon. [7]  
b) Describe the role of on shore vortices in inter - seasonal variation of Monsoon. [5]
- Q5)** a) Explain the significance of Tibetan plateau on origin of Monsoon. [7]  
b) Discuss the normal dates of onset and withdrawal of Monsoon rainfall. [5]
- Q6)** a) Explain the parametric model of monsoon forecasting. [7]  
b) Discuss the variability of summer monsoon rainfall. [5]
- Q7) Write short notes on any two of the following:** [12]  
a) Thermal concept.  
b) Easterly Jet.  
c) ENSO.



Total No. of Questions : 7]

SEAT No. :

P424

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**[5835] - 208**  
**M.A./M.Sc.**  
**GEOGRAPHY**  
**GGUT - 128: Industrial Geography**  
**(2019 Pattern) (Semester - II) (Credit - 4)**

*Time : 3Hours]*

*[Max. Marks : 70*

*Instructions to the candidates :*

- 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.*

**Q1) Solve any five of the following:**

**[10]**

- a) Define primary occupations.
- b) Give the names of industrial regions in Maharashtra.
- c) What do you mean by decentralization?
- d) What is regional economics?
- e) What is chemical industry?
- f) Define foot loose industry.

**Q2) a) Describe the influence of physical factors on industrial location.**

**[7]**

b) Explain the problems of IT industries in India.

**[5]**

**Q3) a) Explain problems and prospects of agro-based industries in Maharashtra.**

**[7]**

b) Describe the favorable situation for industrial linkage.

**[5]**

*P.T.O.*

- Q4)** a) Explain the concept of Green hut's model. [7]  
b) Discuss the problems of industrial regions of western Europe. [5]
- Q5)** a) Explain the Weber's theory of Industrial location. [7]  
b) Explain the role of FDI in development of Indian industry. [5]
- Q6)** a) Discuss the development of tourism industries in India. [7]  
b) Give an account of chemical industries in India. [5]
- Q7) Write short notes on any two of the following:** [12]
- a) Sugar Industries.
  - b) SEZ.
  - c) Nature of Industrial Geography.





Total No. of Questions : 7]

SEAT No. :

P425

[Total No. of Pages : 2

[5835] - 209

F.Y M.A./M.Sc (Geography)

**GGUT-129: GEOGRAPHY OF RURAL SETTLEMENTS**

**(2019 Pattern) (Semester - II) (CBCS)**

*Time : 3Hours]*

*[Max. Marks : 70*

*Instructions to the candidates :*

- 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) Solve any five of the following:**

**[10]**

- a) Define rural settlement.
- b) What do you mean by primitive house type?
- c) What is threshold?
- d) Define site of settlement.
- e) Explain the absolute and relative location of settlements.
- f) Define the term 'Migration'.

**Q2) a) Explain the factors affecting dispersion and nucleation of settlements.[7]**

b) Discuss the geographical aspects of settlements reflected in place names.  
**[5]**

**Q3) a) Critically examine Ricardo's theory of rural land use. [7]**

b) Explain functional growth of rural settlements. **[5]**

*P.T.O.*

- Q4)** a) Discuss the demographic characteristics of rural settlements. [7]  
b) Explain the centrality and hierarchy of rural service centers. [5]
- Q5)** a) Explain the rural settlement patterns in Maharashtra. [7]  
b) Describe building material used for rural houses. [5]
- Q6)** a) Explain the socio - economic transformation in rural areas. [7]  
b) Discuss the methods of the measuring degree of dispersion. [5]
- Q7) Write short notes on any two of the following:** [12]  
a) Von Thunen's model  
b) Seasonal migration.  
c) Types of settlements.



Total No. of Questions : 5]

SEAT No. :

P426

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M.A./M.Sc (Geography)

**130 : GEOGRAPHY OF TOURISM  
(2019 Pattern) (Semester - II) (CBCS)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates :*

- 1) *Q.1 is compulsory.*
- 2) *Solve any three questions from Q.2 to Q.5.*
- 3) *Q.2 to Q.5 carry equal marks.*

**Q1) Solve any five of the following:**

**[5]**

- a) Define 'Inter National Tourism'.
- b) State any two names of religious places in India.
- c) Define term 'Tourist'.
- d) Define 'Motels'.
- e) What is mean by heritage tourism ?
- f) State any two names of Hill stations.

**Q2) a) Describe the physical factors of the tourism.**

**[6]**

b) Explain the importance of tourism.

**[4]**

**Q3) a) Explain the importance of Accommodation in tourism.**

**[6]**

b) Explain difference between national and international tourism.

**[4]**

*P.T.O.*

**Q4) a)** 'Mahabaleshwar is a tourist attraction place'. Discuss. [6]

b) Distinguish between hotel and motel? [4]

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

a) National Park: Tadoba.

b) Vegetation and tourism development.

c) Purpose of tourism.



Total No. of Questions : 5]

SEAT No. :

P427

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F.Y. M.A./M.Sc (Geography)

132 : GEOGRAPHY OF DISASTER MANAGEMENT

(2019 Pattern) (Semester - II) (CBCS)

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates :*

- 1) *Q.1 is compulsory.*
- 2) *Solve any three questions from Q.2 to Q.5.*
- 3) *Q.2 to Q.5 carry equal marks.*

**Q1) Solve any five of the following :**

**[5]**

- a) What do you mean by hazard?
- b) Define disaster risk.
- c) What is land slide?.
- d) Write any two causes of flood.
- e) Define natural disasters.
- f) What is terrorism?

**Q2) a) Explain the causes and effects of volcano.**

**[6]**

b) State the causes of food poisoning.

**[4]**

**Q3) a) Describe the use of GIS in disaster management.**

**[6]**

b) Differentiate the risk and disaster.

**[4]**

*P.T.O.*

**Q4) a) Explain the phases of disaster cycle. [6]**

b) How do the cyclone originate? [4]

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

a) Application of modern technologies in the management of disasters.

b) Role of police forces in disaster management.

c) Classification of disasters.



Total No. of Questions : 7]

SEAT No. :

**P428**

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

**GEOGRAPHY**

**GGUT-235 : Theory-Geo Informatics-II  
(2019 Pattern) (Semester - III) (Credits - 04)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 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.*

- Q1)** Solve any five of the following. **[10]**
- a) Give any two principles of remote sensing.
  - b) What is scattering?
  - c) Define electromagnetic radiation.
  - d) What are Geo-stationary satellites?
  - e) Define spectral resolution.
  - f) What are fiducial marks?
- Q2)** a) Elaborate concept & principles of remote sensing. **[7]**  
b) Explain interaction of EMR with atmosphere. **[5]**
- Q3)** a) Describe sun-synchronous satellites. **[7]**  
b) Give specifications of NOAA satellites. **[5]**
- Q4)** a) Explain in detail optical mechanical scanners. **[7]**  
b) Describe types of resolution. **[5]**
- Q5)** a) Describe the elements of image interpretation. **[7]**  
b) Explain along track scanner. **[5]**
- Q6)** a) Discuss the types of aerial photographs based on camera axis. **[7]**  
b) Describe the components of aerial photograph. **[5]**
- Q7)** Write short notes (any two) **[12]**
- a) Nadir Point
  - b) LANDSAT Satellite.
  - c) Thematic Mapper.



Total No. of Questions : 7]

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M.A./M.Sc.

**GEOGRAPHY**

**GGUT-236 : Geographical Thoughts  
(2019 Pattern) (Semester - III) (Credits-4)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 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.*

- Q1)** Solve any five of the following. **[10]**
- a) Define the term 'Regional planning.
  - b) What do you mean by hypothesis.
  - c) Define the term 'Remote Sensing.
  - d) Write any two name of Greek Schools of thought.
  - e) Name any two British Geographer.
  - f) Enlist the name of the books by Humboldt.
- Q2)** a) Write a brief account of Eratosthenes. **[7]**  
b) Explain the role of Karl Ritter in the Geographical thought. **[5]**
- Q3)** a) Describe the contribution of Immanuel Kant in Geography. **[7]**  
b) Explain the systematic versus Regional Geography. **[5]**
- Q4)** a) Discuss the work of Strabo in the development of Geography. **[7]**  
b) Describe the role of experimental studies in Geography. **[5]**
- Q5)** a) Application of Urban planning. **[7]**  
b) Explain any two models used in Geographical studies. **[5]**
- Q6)** a) Describe the contribution of Marco Polo in Geography. **[7]**  
b) Explain cartography as a recent technique in Geography. **[5]**
- Q7)** Write short notes on any two of the following. **[12]**
- a) Physical versus Human Geography.
  - b) Geo-informatics.
  - c) Environmental management.





Total No. of Questions : 7]

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

**GEOGRAPHY**

**GGUT-237 : Tropical Geomorphology**

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

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 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.*

- Q1)** Solve any five of the following. **[10]**
- a) Define tropical environment.
  - b) What is inselberg?
  - c) Define duricrusts.
  - d) State secondary minerals found in the tropics.
  - e) Define pediplain.
  - f) Name various theories of origin of iron in laterites.
- Q2)** a) Discuss peculiarities of tropical climate. **[7]**  
b) Describe soil formation processes observed in the tropics. **[5]**
- Q3)** a) Explain abiotic factors influencing the tropical weathering. **[7]**  
b) Describe morphogenetic regions. **[5]**
- Q4)** a) Discuss distribution of duricrusts in the world. **[7]**  
b) Describe denudational processes caused by tropical rivers. **[5]**
- Q5)** a) Write different processes involved in mass movement. **[7]**  
b) Describe how climatic changes took place during quaternary period. **[5]**
- Q6)** a) Describe the peculiarities of tropical coasts. **[7]**  
b) Explain the processes involved in the formation of double surface of planation. **[5]**
- Q7)** Write short notes on any two of the following. **[12]**
- a) Morphology of planation surface.
  - b) Tropical terrain.
  - c) Changes in vegetation during quaternary any period.



Total No. of Questions : 7]

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**M.A./M.Sc.-II**

**GEOGRAPHY**

**GGUT-238 : Applied Climatology (4 Credits)**

**(2019 Pattern) (Semester -III) (Choice Based Credit system)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Question Q.2 to Q.7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

**Q1)** Write the answer of the following questions in about 20 words. (any 5) **[10]**

- a) Define applied climatology.
- b) Name the instruments used to measure radiation.
- c) What is evapotranspiration?
- d) Define climate change.
- e) What is mean by cooling towers?
- f) Write any two uses of remote sensing in agroclimatology.

**Q2)** a) Describe the important stages in the development of applied climatology. **[7]**

- b) Explain radiation laws. **[5]**

**Q3)** a) Describe the influence of climate on crops. **[7]**

- b) Explain the relationship between climate and clothing. **[5]**

**Q4)** a) Explain the nature of global environment change. **[7]**

- b) Describe important climate variables. **[5]**

**Q5)** a) Describe various forms of precipitation. **[7]**

- b) Differentiate between heating degree days and cooling degree days. **[5]**

**Q6)** a) Describe the effect of climate on land transport. **[7]**

- b) Explain the use of remote sensing in monitoring crop condition. **[5]**

**Q7)** Write short notes on any two of the following. **[12]**

- a) Nature of applied climatology.
- b) Human bio-meteorology.
- c) Urban heat island.



Total No. of Questions : 7]

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M.A./M.Sc.

**GEOGRAPHY**

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

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Question Q.2 to Q.7 carry equal marks.*

- Q1)** Solve any five of the following. **[10]**
- a) Write aims of rural development.
  - b) What is E-Governance?
  - c) Define the concept of sanitation.
  - d) What is 'IRDP'?
  - e) Define the term Panchayati Raj.
  - f) What is cooperative society?
- Q2)** a) Explain social factors affecting on rural development. **[7]**  
b) Describe the concept of rural development. **[5]**
- Q3)** a) Explain planning process of rural development. **[7]**  
b) Discuss major issues and challenges of rural development in context to India. **[5]**
- Q4)** a) Explain the role of Non-Govt. organization (NGOs) in rural development. **[7]**  
b) Describe rural development planning in India. **[5]**
- Q5)** a) Describe application of IT and GIS in rural development. **[7]**  
b) Write the concept of rural development. **[5]**
- Q6)** a) Explain the concept of rural management. **[7]**  
b) Describe concept of smart village. **[5]**
- Q7)** Write short notes on any two of the following. **[12]**
- a) Hiware bazar.
  - b) Agricultural credit society.
  - c) Green revolution and rural development.



Total No. of Questions : 7]

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

**GEOGRAPHY**

**GGUT-240 : -Urban Geography**

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

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Question Q.2 to Q.7 carry equal marks.*

**Q1)** Solve any five of the following. **[10]**

- a) What is range of goods?
- b) Give any two elements of city plan.
- c) Concept of Hierarchy.
- d) Define- Urban geography.
- e) What is urban planning?
- f) Name any two contemporary factors of urbanization.

**Q2)** a) Explain the scope of urban geography. **[7]**  
b) What are the problem faced by squatters and slums? **[5]**

**Q3)** a) Explain the multiple nuclear theory of morphological pattern of cities. **[7]**  
b) Which criterias are used for the classification of cities? **[5]**

**Q4)** a) Review the spatio-temporal variation in urbanization in the world. **[7]**  
b) Write classification of Indian cities. **[5]**

**Q5)** a) Is christaller's central place theory applicable for Indian conditions? Explain in detail. **[7]**  
b) What are the criterias of demarcation of city region? **[5]**

**Q6)** a) What are the contemporary urban issues? Explain the environmental issues in detail. **[7]**  
b) Explain Urban development policies in India. **[5]**

**Q7)** Write short notes on any two of the following. **[12]**  
a) Major demographic highlights in urban areas.  
b) Central business district.  
c) Rank size rule.



Total No. of Questions : 5]

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

**GEOGRAPHY**

**GGUT-242 : Hydrology**

**(2019 Pattern) (Semester -III) (CBCS) (Credit-02)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any three questions from Q.2 to Q.5.*
- 3) *Question Q.2 to 5 carry equal marks.*

**Q1)** Solve any five of the following. **[5]**

- a) What is hydrologic budget?
- b) What is a units of measurement of infiltration?
- c) Note the sources of atmospheric moisture.
- d) Define 'Throughfall'.
- e) Define 'Evapotranspiration'.
- f) What is mean by 'net precipitation'.

**Q2)** a) Discuss the application of hydrology. **[6]**

b) Explain the climatological data. **[4]**

**Q3)** a) Describe the measurement of any two hydrologic variables. **[6]**

b) What is difference between gross and net precipitation. **[4]**

**Q4)** a) Explain the factors affecting on interception. **[6]**

b) Write methods of evaporation control. **[4]**

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

- a) Process of hydrological cycle.
- b) Forms of precipitation.
- c) Depression storage.



Total No. of Questions : 5]

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**M.A./M.Sc.-II**

**GEOGRAPHY**

**GGUT-243 : Watershed Management**

**(2019 Pattern) (Semester -III) (CBCS) (Credit-2)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any Three questions from Q.2 to Q.5.*
- 3) *Questions 2 to 5 carry equal marks.*

**Q1)** Solve any five of the following: **[5]**

- a) Define 'Watershed'.
- b) What is watershed delineation.
- c) What do you mean by evapotranspiration?
- d) Define 'Runoff'.
- e) What is the main objective of integrated watershed development plan?
- f) What is mean by 'Nala Bunding'?

**Q2)** a) Explain the principle of watershed management. **[6]**

b) Describe the size and shape characteristics of watershed. **[4]**

**Q3)** a) Describe the methods of watershed delineation. **[6]**

b) Explain the water budget process in watershed. **[4]**

**Q4)** a) Explain methods of water conservation. **[6]**

b) Give the importance of watershed management in National development. **[4]**

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

- a) Process of hydrological cycle.
- b) Soil conservation.
- c) Problems in watershed management.



Total No. of Questions : 7]

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**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.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Q.2 to 7 carry equal marks.*
- 4) *Use of map stencils is allowed.*

**Q1)** Solve any five of the following.

**[10]**

- a) Name the highest peak of Western Ghat.
- b) Write name of any four east flowing river in India.
- c) Name any two drought prone regions in India.
- d) State any two causes of deforestation in India.
- e) Write any two Positive impacts of Green revolution.
- f) Name any two thermal power project in India.

**Q2)** a) Write river originate from peninsular plateau and describe any one of them. **[7]**

b) Describe environmental factor affecting on Indian agriculture. **[5]**

**Q3)** a) Explain the retreat monsoon weather conditions in India. **[7]**

b) Write major soil types and their distribution in India. **[5]**

**Q4)** a) Discuss the remedial measures for conservation of forest in India. **[7]**

b) Write the distribution and utilization of coal energy in India. **[5]**

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- Q5)** a) Describe the problems of cotton textile and sugar industries in India. [7]  
b) Discuss the agriculture revolution in India. [5]
- Q6)** a) Explain characteristics of Tropical forests in India. [7]  
b) Write the characteristics of Indian Islands. [5]
- Q7)** Write short notes (any two) [12]  
a) Frontiers of India.  
b) Distribution of population in India.  
c) Problem of industrial development in India.





Total No. of Questions : 7]

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M.A./M.Sc.

**GEOGRAPHY**

**GGUT-250 : Oceanography**

**(2019 Pattern) (Semester -IV) (Credits-4) (Theory)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Questions 2 to 7 carry equal marks.*

**Q1)** Solve any five of the following. **[10]**

- a) What is meant by post-war oceanography?
- b) Define the term pangea.
- c) Name the oceanic plate that lies between Central America and Pacific plate.
- d) Define divergent boundary.
- e) What is mid-oceanic ridge?
- f) Define the term pycnocline.

**Q2)** a) Discuss the contributions of oceanographers to the subject of oceanography. **[7]**

b) Explain in brief post-war oceanography. **[5]**

**Q3)** a) Explain plate tectonics as a basis of the origin of ocean basins. **[7]**

b) State the evidences of continental drift theory. **[5]**

**Q4)** a) Explain the occurrences of oceanic ridges and rises with respect to the volcanoes. **[7]**

b) Discuss with proper illustrations continental shelves and slopes. **[5]**

**Q5)** a) Discuss the inter relation between ocean water temperature. and salinity. **[7]**

b) What are the different types of oceanic pollutants? Explain them in brief. **[5]**

**Q6)** a) Discuss the characteristics of hydrogenous sediments. **[7]**

b) Explain the anthropogenic activities resulting in ocean pollution. **[5]**

**Q7)** Write short notes (any two) **[12]**

- a) Exploited ocean resources.
- b) Oceanic trenches.
- c) Continental margins.



Total No. of Questions : 7]

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M.A./M.Sc.

**GEOGRAPHY-II**

**GGUT-251 : Research Methodology**

**(CBCS 2019 Pattern) (Semester -IV) (Credit-4)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Questions 2 to7 carry equal marks.*
- 4) *Draw figures/diagrams wherever necessary.*

- Q1)** Solve any five of the following. **[10]**
- a) What do you mean by 'Research'?
  - b) State any two purposes of research design.
  - c) Define 'Research Problem'
  - d) What is primary data?
  - e) Give measures of dispersion.
  - f) Name any two plagiarism detection softwares.
- Q2)** a) Describe characteristics of good research. **[7]**  
b) Explain techniques involved in defining a research problem. **[5]**
- Q3)** a) Explain methods of sampling. **[7]**  
b) Write information about chi-square test. **[5]**
- Q4)** a) Discuss importance of time series analysis in research. **[7]**  
b) Literature review is significant in research. Explain. **[5]**
- Q5)** a) Give an account of opportunities in geography research. **[7]**  
b) Differentiate between research paper and review article. **[5]**
- Q6)** a) Define hypothesis and explain its types. **[7]**  
b) Write advantages of sampling in statistical analysis. **[5]**
- Q7)** Write short notes on any two of the following. **[12]**
- a) Importance of field work in research.
  - b) Research ethics.
  - c) Research methodology.



Total No. of Questions : 5]

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

**GEOGRAPHY**

**GGUT-252 : Geography of Soil**

**(2019 Pattern) (Semester -IV) (2 Credits)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any Two questions from Q.2 to Q.5.*
- 3) *Question Q.2 to 5 carry equal marks.*

- Q1)** Answer any five out of six **[5]**
- a) How do you define soil.
  - b) Which horizon is called as which zone.
  - c) Write any three biological factors that affect the soil formation.
  - d) Which layer is called as humus layer.
  - e) What are the chemical characteristics of the soil.
  - f) What are the types of micronutrients in the soil.
- Q2)** a) Describe soil as a natural resource. **[6]**  
b) Write note on nature of geography. **[4]**
- Q3)** a) Define soil profile and explain its structure **[6]**  
b) Write a note on role of topography and climate in the formation of soil. **[4]**
- Q4)** a) Discuss the physical characteristics of the soil. **[6]**  
b) Write a note on primary and secondary nutrients in the soil. **[4]**
- Q5)** Any two of the following. **[10]**
- a) Soil formation.
  - b) Discuss the nutrients in the soil.
  - c) Development of soil geography.



Total No. of Questions : 5]

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**M.A./M.Sc.-II**

**GEOGRAPHY**

**GGUT-254 : Political Geography**

**(2019 Pattern) (Semester -IV) (CBCS) (Credit-2)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any Three questions from Q.2 to Q.5.*
- 3) *Question Q.2 to 5 carry equal marks.*
- 4) *Use of map stencil is allowed.*
- 5) *Draw figures/Map wherever necessary.*

**Q1)** Solve any five of the following. **[5]**

- a) Define political geography.
- b) Define state.
- c) Write any two examples of interstate water dispute in India.
- d) What is 'No Man Land'?
- e) Define Frontiers.
- f) Who proposed the theory of Heart land?

**Q2)** a) Explain the elements of the state with suitable examples. **[6]**

b) Discuss the importance of political geography. **[4]**

**Q3)** a) Discuss the genetic classification of boundaries. **[6]**

b) Describe the global geo-strategic views of Mackinder. **[4]**

**Q4)** a) Distinguish between frontier and boundary. **[6]**

b) Discuss the dispute of Indian border with neighbouring countries. **[4]**

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

- a) Nature of political Geography.
- b) Modern Geopolitics.
- c) Origin of state.



Total No. of Questions : 5]

SEAT No. :

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**M.A./M.Sc-II**

**GEOGRAPHY**

**GGUT-255 : Regional Planning**

**(2019 Pattern) (Semester -IV) (Choice Based Credit System)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Question No.1 is compulsory.*
- 2) *Solve any three questions from Q.No.2 to Q.No.5.*
- 3) *Question No.2 to 5 carry equal marks.*
- 4) *Use of map stencil is allowed.*
- 5) *Draw figures/map wherever necessary.*

**Q1)** Solve any five of the following. **[5]**

- a) Write the concept of regional planning.
- b) Define term 'Region'.
- c) What is formal region?
- d) What is multi level planning?
- e) What is metropolitan region?
- f) Write full form of 'AMRUT'.

**Q2)** a) Discuss the role of Geography in regional planning. **[6]**

b) Describe the concept of planning region. **[4]**

**Q3)** a) Explain the regional survey in regional planning. **[6]**

b) Bring out salient features of regional policies in India. **[4]**

**Q4)** a) Explain the concept of regionalisation. **[6]**

b) What are the indicators of development? **[4]**

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

- a) Allocative regional planning.
- b) Diagnostic survey.
- c) Micro level planning.



Total No. of Questions : 7]

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

**GEOGRAPHY**

**GGUT-258 : Geography of World**

**(2019 CBCS Pattern) (Semester -IV) (Credit-4)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Use of map stencils is allowed.*

- Q1)** Solve any five of the following. **[10]**
- a) Write major cities of Australia.
  - b) Write chief crops of Africa continent.
  - c) Explain major natural regions of world.
  - d) What do you mean by Azoic or pre-cambrian era.
  - e) Write Terrorism affected areas of the world.
  - f) Write any two causes of climate change.
- Q2)** a) Explain the population growth of the world. **[7]**  
b) Write mineral resources of north America. **[5]**
- Q3)** a) Explain in details causes and consequences of global warming. **[7]**  
b) Write the drainage and water resources of Russia. **[5]**
- Q4)** a) Discuss the challenges and opportunities of the world. **[7]**  
b) Give an account on major industrial area of Europe. **[5]**
- Q5)** a) Describe the major water disputes in the world. **[7]**  
b) Methods of Geochronology. **[5]**
- Q6)** a) Explain origine of earth and solar system. **[7]**  
b) Divisions of geological time scale. **[5]**
- Q7)** Write short notes on any two of the following. **[12]**
- a) Pattern of population Density in Europe.
  - b) Pacific ocean.
  - c) Food security in world.

