

Total No. of Questions : 7]

SEAT No. :

P-2530

[Total No. of Pages : 2

[6068]-111

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) Which are three stages of Davisian cycle of erosion?
- b) Name types of mass movements.
- c) Characteristics of sea waves.
- d) Fluvially sculpted landforms in desert.
- e) Order of landforms.
- f) Elaborate geomorphology.

**Q2)** a) What is Geologic time scale? What are its major segments? **[7]**

b) Explain interior of the Earth. **[5]**

**Q3)** a) What are the drawbacks of Wegener's continental drift theory? **[7]**

b) Write in brief about physical weathering processes. **[5]**

**P.T.O.**

- Q4)** a) What is the Davisian model of hill slope development? [7]  
b) What are types of glacial erosion? Describe its erosional landforms. [5]
- Q5)** a) Write a note on fluvially sculpted landforms with diagrams? [7]  
b) What is wave refraction? [5]
- Q6)** a) Describe depositional environment of glaciers with diagram. [7]  
b) Explain theory of isostasy. [5]
- Q7)** Write short notes on any **Two** of the following. [12]  
a) Characteristics of primary seismic waves.  
b) Sea floor spreading.  
c) Landforms associated with convergent plate boundaries.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

**P2531**

**[6068]-112**

**First Year M.A./M.Sc.**

**GEOGRAPHY**

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

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Question 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 stencil is allowed.*

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

**[10]**

- a) Define weather.
- b) define meteorology.
- c) Mention any two causes of ozone layer depletion.
- d) Which are the units used for the measurements of the wind speed.
- e) Define geostrophic wind.

**Q2)** a) Explain the composition of atmosphere in detail.

**[7]**

b) Discuss on types of aurora in detail.

**[5]**

**Q3)** a) Give an account of the distribution of atmospheric pressure.

**[7]**

b) Define wind. Explain the factors affecting on wind in detail.

**[5]**

**Q4)** a) Illustrate primary circulation of the atmosphere.

**[7]**

b) Discuss the effects of jet stream on surface weather condition.

**[5]**

**P.T.O.**

- Q5)** a) Define humidity and discuss its method of measurement. [7]  
b) Explain the factors effecting on condensation. [5]
- Q6)** a) Illustrarte the various types of all masses. [7]  
b) What is atmospheric stability? Explain the absolute instability in detail.[5]
- Q7)** Write short notes on any two of the following: [12]  
a) Evolution of earth's atmospher.  
b) Gradient wind.  
c) Cold front.



Total No. of Questions : 7]

SEAT No. :

P-2532

[Total No. of Pages : 2

[6068]-113

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

**GEOGRAPHY**

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

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

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

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

**[10]**

- a) Define Economic Geography.
- b) Which are the three types of economic activities?
- c) What is the definition of resources?
- d) Name any two under develop countries.
- e) Write any two advantages of road transport.
- f) What is international trade?

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

**[7]**

b) Discuss the technical factors influence on location of economic activities.**[5]**

**Q3) a) Explain economic factors influence on location of economic activity.[7]**

b) Describe the importance of non-conventional energy resources. **[5]**

**Q4) a) Describe the classification of resources.**

**[7]**

b) Explain the means of communication.

**[5]**

**P.T.O.**

- Q5)** a) Describe in detail Rostow's model. [7]  
b) Explain the types of trade. [5]
- Q6)** a) Explain the role of IT industry in economic development in Maharashtra.[7]  
b) Discuss the advantages of green revolution in India. [5]
- Q7)** Write short notes on any two of the following : [12]  
a) E-commerce  
b) Impact of privatization on economic development.  
c) Regional disparities in Maharashtra.

▽▽▽▽

Total No. of Questions : 7]

SEAT No. :

P-2533

[Total No. of Pages : 2

[6068]-114

M.A./M.Sc. (Part - 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) *Question 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 fertility?
- b) What is population geography?
- c) What is dependency ratio?
- d) Enlist social factors affecting distribution of population.
- e) Define urban sprawl.
- f) Define CBD.

**Q2)** a) Define urbanization and explain the stages of urbanization.

**[7]**

b) Explain the site and situation aspect in human settlement.

**[5]**

**Q3)** a) Define literacy and explain the measures of literacy.

**[7]**

b) Describe the malthus theory of population.

**[5]**

**Q4)** a) Describe the factors affecting dispersion and nucleation.

**[7]**

b) Explore trend and level of urbanization in India.

**[5]**

**P.T.O.**

- Q5)** a) Describe various patterns of settlement. [7]  
b) Explain the concept of aging of populations. [5]
- Q6)** a) Explain the physical factors affecting distribution of population. [7]  
b) Describe the concept of immigration and emigration. [5]
- Q7)** Write short notes on any two of the following : [12]  
a) Approaches to the study of population geography.  
b) Rank-size rule  
c) Age and sex structure

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Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

**P2534**

**[6068]-211**

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

**GEOGRAPHY**

**GGUT-121 : Geo Informatics - I**

**(2019 Pattern) (Semester-II) (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 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) Define Geoinformatics.
- b) What is map algebra?
- c) Explain concept of focal operation.
- d) State objectives of GIS.
- e) What is geodatabase?
- f) Explain ordinal data.

**Q2)** a) Describe the logical relationships in a database.

**[7]**

b) Explain the editing errors.

**[5]**

**Q3)** a) Describe the nominal database.

**[7]**

b) Explain manual digitization.

**[5]**

**Q4)** a) Give a brief account of automatic digitization.

**[7]**

b) What is digitization? Explain the different type of digitizers.

**[5]**

**P.T.O.**

- Q5)** a) Discuss the map algebra in data analysis. [7]  
b) Distinguish between raster and vector data models. [5]
- Q6)** a) Give an account of the potential of GIS. [7]  
b) Explain the spatial database. [5]
- Q7)** Write short notes on any two of the following. [12]  
a) Non spatial data.  
b) Quad tree tessellation.  
c) Spatial information theory.



Total No. of Questions : 7]

SEAT No. :

P-2535

[Total No. of Pages : 2

[6068]-212

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

GEOGRAPHY

GGUT-122 : Coastal Geomorphology  
(2019 Pattern) (Semester - II) (Credit 4)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

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

Q1) Solve any five of the following :

[10]

- a) Define diurnal tide.
- b) Define wave length.
- c) What is wave refraction?
- d) Define stumps.
- e) What is coastal current?
- f) Define shore platforms.

Q2) a) Explain the coastal environment with suitable examples.

[7]

b) Explain the various types of waves.

[5]

Q3) a) Elaborate the characteristics of tide dominated sea coast.

[7]

b) Discuss fossil beach ridges and beach rocks as indicators of former sea level changes.

[5]

Q4) a) Explain the wind and tide induced currents in detail.

[7]

b) Illustrate grain size characteristics of coastal sediments.

[5]

P.T.O.

- Q5)** a) Explain the morphology and hydrodynamics of estuaries and tidal flats. [7]  
b) Discuss on geos and blow holes with suitable examples. [5]
- Q6)** a) Illustrate coastal erosion and progradation in detail. [7]  
b) Explain in detail local case studies on coastal hazard management. [5]
- Q7)** Write short notes on any two of the following : [12]  
a) Spring and neap tide  
b) Wetlands  
c) Coastal regulation zones

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Total No. of Questions : 7]

SEAT No. :

P-2536

[Total No. of Pages : 2

**[6068]-213**  
**M.A/M.Sc. - I**  
**GEOGRAPHY**  
**GGUT-123 : Synoptic Climatology**  
**(2019 Pattern) (Semester - II) (Credit-4)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Question 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) Explain the term climatological synthesis.
- b) Define fronts.
- c) What is tropical cyclone?
- d) What is a cold wave?
- e) Enlist the type of fogs.
- f) Write any two applications of synoptic climatology.

**Q2)** a) Define synoptic climatology. Explain the scope of synoptic climatology in detail. **[7]**

b) Explain the observing system of weather data by India Meteorological Department. **[5]**

**Q3)** a) Explain the formation and structure of tropical cyclone. **[7]**

b) Describe the synoptic approach of synoptic climatology. **[5]**

**P.T.O.**

- Q4)** a) Discuss air masses of Europe. [7]  
b) Explain the idealized weather of a wave cyclone. [5]
- Q5)** a) Define cloud and classify the clouds in detail. [7]  
b) Describe the formation of warm fronts with suitable diagram. [5]
- Q6)** a) Explain the methods of weather forecasting. [7]  
b) Discuss the application of synoptic climatology in marine activities. [5]
- Q7)** Write short notes on any Two of the following. [12]  
a) Thunderstorm.  
b) Ross by waves.  
c) Precipitation processes.



Total No. of Questions : 7]

SEAT No. :

P-2537

[Total No. of Pages : 2

**[6068]-214**  
**F.Y.M.A./M.Sc.**  
**GEOGRAPHY**  
**GGUT - 124 : Agricultural Geography**  
**(2019 Pattern) (Semester - II) (CBCS)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates :*

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q2 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) What is a drought?
- b) Define agriculture.
- c) What is commodity approach?
- d) Define commercial grain farming.
- e) Give any four characteristics of shifting cultivation.
- f) Mention crops in panjab - Haryana region.

**Q2)** a) Explain the interdisciplinarity nature of agricultural geography.

**[7]**

b) Write in brief about Weaver's method of crop combination.

**[5]**

**Q3)** a) Describe the physical factors determinants of agricultural pattern.

**[7]**

b) Explain Agro tourism.

**[5]**

**Q4)** a) Explain the role of irrigation in agricultural development.

**[7]**

b) Distinguish between mixed farming and shifting cultivation.

**[5]**

**P.T.O.**

- Q5)** a) Describe the significance of agriculture in the world. [7]  
b) Give a brief information about agricultural problems with reference to India. [5]
- Q6)** a) Describe the recent changes in Indian agriculture. [7]  
b) Explain characteristics of Indian agriculture. [5]
- Q7)** Write a short note on any two of the following. [12]  
a) Waste land management.  
b) Agricultural productivity in India.  
c) Agro - forestry.





Total No. of Questions : 7]

SEAT No. :

**P2538**

**[6068]-215**

**[Total No. of Pages : 1**

**F. Y. M.A./M.Sc.**

**GEOGRAPHY**

**GGUT - 125 : Population Geography  
(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) *Q.2 to Q.7. carry equal marks.*

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

- a) Define migration.
- b) What is sample registration survey?
- c) Give two examples of internal migration.
- d) What is NFHS data?
- e) What is international migration?
- f) What is national sample survey?

**Q2) a) Discuss the factors affecting on mortality. [7]**

b) Describe the push factors of migration. [5]

**Q3) a) Explain the determinants of migration. [7]**

b) Discuss the optimum population with suitable examples. [5]

**Q4) a) Discuss the composition of population. [7]**

b) Discuss the relation between population and development. [5]

**Q5) a) Critically examine the demographic transition model. [7]**

b) Describe the types of migration. [5]

**Q6) a) Explain the factors affecting on population distribution. [7]**

b) Describe the sources of population data. [5]

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

- a) Scope of population geography.
- b) Population policy of China.
- c) Human Development Index.



Total No. of Questions : 7]

SEAT No. :

**P2539**

**[6068]-216**

**[Total No. of Pages : 1**

**M.A./M.Sc. - I**

**GEOGRAPHY**

**GGUT - 126 : Fluvial Geomorphology  
(2019 Pattern) Semester - II)(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) *Q.2 to Q.7. carry equal marks.*

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

- a) Law of allometric growth.
- b) Fluvial geomorphology as a branch of geomorphology.
- c) Which landforms are linked with floodplains?
- d) River metamorphosis.
- e) What is Manning's equation?
- f) Explain stream power with formula.

**Q2) a) Explain fluvial erosional processes. Which are the prominent erosional landforms of Bedrock Rivers? [7]**

b) How laminar flow is different from turbulent flow? Explain with diagram. [5]

**Q3) a) What is channel pattern? Which are various kinds of channel patterns? What are the characteristics of meandering channel pattern? [7]**

b) What is instantaneous flood hydrograph? Which are its segments? [5]

**Q4) a) How sediment is transported in river channels? Describe diagrammatically. [7]**

b) What is the difference between direct observations and historical information? How it forms as evidence of river metamorphism? [5]

**Q5) a) What is Glock's model? [7]**

b) Give diagrammatic explanation of overland flow. [5]

**Q6) a) What is difference between bedrock and alluvial rivers? What are their characteristics? [7]**

b) Nature of fluvial geomorphology. [5]

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

- a) Downstream hydraulic geometry.
- b) Formation of river deltas.
- c) Step and pool sequences.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 1

**P2540**

**[6068]-217**

**M.A./M.Sc. - I**

**GEOGRAPHY**

**GGUT - 127 : Monsoon Climatology  
(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) *Q.2 to Q.7. carry equal marks.*

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

- a) What is Monsoon?
- b) What is Easterly Jet?
- c) What do you mean by withdrawal of monsoon?
- d) What is walker circulation?
- e) What is short forecasting?
- f) What is MONEX?

**Q2) a) Describe the East Asian monsoon. [7]**

b) Explain the model of monsoon on rotating Earth. [5]

**Q3) a) Explain the driving mechanism of Indian monsoon . [7]**

b) Discuss El-Nino. [5]

**Q4) a) Describe the parametric model of monsoon forecasting. [7]**

b) Explain the mid-tropospheric disturbances. [5]

**Q5) a) Discuss different factors used for monsoon forecasting. [7]**

b) Explain the historical background of Indian monsoon. [5]

**Q6) a) Discuss the classical theory of origin of Indian monsoon. [7]**

b) Give an account of air pressure pattern over India during monsoon. [5]

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

- a) Heat low.
- b) Withdrawal of monsoon.
- c) Indian Ocean Dipole (IOD).



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 1

**P2541**

**[6068]-218**

**M.A./M.Sc. - I**

**GEOGRAPHY**

**GGUT - 128 : Industrial Geography  
(2019 Pattern) (Semester - II) (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) *Q.2 to Q.7. carry equal marks.*

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

- a) Define the term 'Industrial Geography'?
- b) What is mean by centralization of industries?
- c) What is agglomeration?
- d) What is mean by SEZ?
- e) Give the two names of agro-based industries in India.
- f) Give the full from of MIDC.

**Q2) a) Explain the industrial region of India. [7]**

b) Explain the problems of sugar industries in India. [5]

**Q3) a) Critically evaluate losch's model of industrial location. [7]**

b) Give an account of 'Chemical industries in India. [5]

**Q4) a) Explain the scope of industrial geography. [7]**

b) Explain the problems of IT industrial location. [5]

**Q5) a) Explain the Weber's theory of industrial location. [7]**

b) Write a note on regional development of industries. [5]

**Q6) a) Explain the impact of physical factors an industrial location. [7]**

b) Discuss the salient features of Indian industrial regions. [5]

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

- a) Cotton textile industries.
- b) Small scale industries in India.
- c) Nature of industrial geography.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 1

**P2542**

**[6068]-219**

**M.A./M.Sc. - I**

**GEOGRAPHY**

**GGUT - 129 : Geography of Rural Settlements**

**(2019 Pattern) (Credits 4) (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) *Q.2 to Q.7. carry equal marks.*

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

- a) Define rural settlements.
- b) What is a situation of settlement?
- c) What do you mean by the transformation of rural settlements?
- d) Define migration.
- e) What is the nucleation of settlements?
- f) What do you mean by primitive house?

**Q2) a) Discuss the historical and cultural aspects of settlements reflected in place names. [7]**

b) Describe the system of land tenancy in rural areas. [5]

**Q3) a) Discuss the factors affecting on the growth of settlements. [7]**

b) Explain the Ricardo theory of rural land use. [5]

**Q4) a) Critically examine the central place theory. [7]**

b) Explain the socio-economic transformation in rural areas. [5]

**Q5) a) Discuss the various patterns of settlements in Maharashtra. [7]**

b) Describe the demographic characteristics of rural communities. [5]

**Q6) a) Describe the factors affecting on the dispersion of settlement. [7]**

b) Discuss economic organization within the village. [5]

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

- a) Factors affecting rural house types.
- b) Centrality and hierarchy of rural service centres.
- c) Commuting pattern.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages :1

**P2543**

**[6068]- 220**

**First Year M.A./M.Sc.**

**GEOGRAPHY**

**GGDT-130 : Geography of Tourism**

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

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Question no.1 is compulsory.*
- 2) *Solve any three questions from Q.2 to Q.5.*
- 3) *Question 2 to 5 carry equal marks.*

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

- a) Define eco-tourism.
- b) State any two names religious places in India.
- c) Give any two advantages of air transportation in tourism activity.
- d) Define motels.
- e) State any two names of national parks in India.
- f) State any two names of hill stations in India.

**Q2)** a) Describe the physical factors of the tourism. **[6]**

b) Explain the concept of recreation and leisure. **[4]**

**Q3)** a) 'Mahabaleshwar is a tourist attraction place'. Discuss. **[6]**

b) Explain differences between tourist and tourism. **[4]**

**Q4)** a) Explain the role of dharmashalas in religious tourism. **[6]**

b) Describe the historical center; Pratapgad. **[4]**

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

- a) Adventure tourism.
- b) National Park: Tadoba.
- c) Rail yatiriharvan.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages :1

**P2544**

**[6068]- 221**

**First Year M.A./M.Sc.**

**GEOGRAPHY**

**GGDT-132 : Geography Of Disaster Management  
(2019 Pattern) (Semester - II) (Credit System)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Question no.1 is compulsory.*
- 2) *Solve any three questions from Que.2 to Que.5.*
- 3) *Questions 2 to 5 carry equal marks.*

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

- a) What is resilience?
- b) Define Tsunami.
- c) What is the long form of RS?
- d) What is food poisoning?
- e) Define first aid.
- f) Define terrorism.

**Q2) a) Explain the causes and effects of flood. [6]**

b) Discuss the use of GIS in disaster management. [4]

**Q3) a) Explain the role of NGO's in disaster management. [6]**

b) Discuss the causes and effects of cyclone. [4]

**Q4) a) Discuss the application of modern technologies for emergency communication. [6]**

b) Discuss the classification of disasters. [4]

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

- a) Drought.
- b) Phases of disaster cycle.
- c) Role of police forces in disaster management.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

**P2545**

[6068]-311

M.A./M.Sc.

**GEOGRAPHY**

**GGUT 235 : Geo in formatics-II  
(CBCS 2019 Pattern) (Semester - III)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Question 1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Q.2 to Q.7 carry equal marks.*
- 4) *Figures to the right indicate full marks.*

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

**[10]**

- a) Give the range of visible spectrum in EMR.
- b) Define Radiation.
- c) What is Sun-synchronous satellite?
- d) Define push broom Scanner.
- e) Give the meaning of temporal resolution.
- f) What is meant by Naelir point?

**Q2)** a) Give an account of components of remote sensing.

**[7]**

b) Explain interaction of EMR with surface earth.

**[5]**

**Q3)** a) Describe remote sensing platform with characteristics.

**[7]**

b) Discuss the IRS. Series of satellites.

**[5]**

**Q4)** a) Give an account of Geo stationary satellites.

**[7]**

b) Explain spatial resolution with an example

**[5]**

**P.T.O.**



- Q5)** a) Describe the elements of image interpretation. [7]  
b) Explain the role of association in image interpretation. [5]
- Q6)** a) Explain the specifications of Aerial camera. [7]  
b) Describe the types of Aerial photography. [5]
- Q7)** Write short notes (any two) [12]  
a) Fiducial axis.  
b) SPOT Satellites.  
c) LANDSAT Satellites.



Total No. of Questions : 7]

SEAT No. :

P-2546

[Total No. of Pages : 2

[6068]-312

M.A./M.Sc. - II

GEOGRAPHY

**GGUT-236: Geographical Thoughts  
(2019 Pattern) (Semester - III) (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 stencils is allowed.*

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

**[10]**

- a) What do you mean by natural hazards?
- b) Write any two name of Greek school of thought.
- c) Define the term 'Remote Sensing'.
- d) Enlist the name of the books by Humboldt.
- e) Write any two methods of field survey?
- f) Define the term 'Hypothesis'.

**Q2)** a) Describe in brief Captain cook and it's work in Geography.

**[7]**

b) Explain the work of Strabo in Geographical thought.

**[5]**

**Q3)** a) Describe the contribution of Immanuel Kant in Geography.

**[7]**

b) Explain the physical versus Human Geography.

**[5]**

*P.T.O.*

- Q4)** a) Discuss the theories and laws in Geography. [7]  
b) Write in brief account of Arab School of thought. [5]
- Q5)** a) Explain the significance of Applied Geography. [7]  
b) Describe the role of experimental studies in Geography. [5]
- Q6)** a) Describe the contribution of Marco-polo in Geography. [7]  
b) Discuss the various techniques in landuse planning. [5]
- Q7)** Write Short notes on any two of the following : [12]  
a) Regional Planning.  
b) Vasco-da-Gama.  
c) GIS.



Total No. of Questions : 7]

SEAT No. :

P-2547

[Total No. of Pages : 2

[6068]-313

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

GEOGRAPHY

GGUT-237 : Tropical Geomorphology

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

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question 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 weathering?
- b) Define duricrust.
- c) What is meant by clay mineral?
- d) State the name of chemical denudation in tropics.
- e) What is hillslope?
- f) Name various types of tropical coasts.

Q2) a) Describe Morphogenetic regions in the tropics.

[7]

b) Explain the deep weathering profile in the tropics.

[5]

Q3) a) Explain the classification of tropics.

[7]

b) Describe process of chemical denudation in tropics.

[5]

Q4) a) Discuss the process of soil formation in tropics.

[7]

b) Explain landform development on laterite.

[5]

P.T.O.

- Q5)** a) Explain types of mass movement in tropics. [7]  
b) Describe peculiarities of tropical climate. [5]
- Q6)** a) Describe role of tectonics and climate change in tropics. [7]  
b) Explain morphology of plantation surfaces in tropics. [5]
- Q7)** Write short notes on any two of the following : [12]  
a) Slope and valley forms  
b) Double surface planation  
c) Changes in climate during quaternary period.

□□□

Total No. of Questions : 7]

SEAT No. :

P-2548

[Total No. of Pages : 2

[6068]-314

M.A./M.Sc. - II

GEOGRAPHY

GGUT - 238 : Applied Climatology

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

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) Name the instruments used to measure precipitation.
- b) Write any two effects of climate on plants.
- c) What is climate extreme?
- d) Write any two effects of climate on soil.
- e) Define cooling degree days.
- f) What is plant stress?

Q2) a) Write the stages in the development of applied climatology. [7]

b) Describe evaporation and evapotranspiration. [5]

Q3) a) Describe Radiation in details. [7]

b) Explain the effects of climate on soil. [5]

Q4) a) Describe human bio-meteorology. [7]

b) Write significant climate variables. [5]

P.T.O.

- Q5)** a) Explain the nature of global environmental change. [7]  
b) Describe forms of precipitation. [5]
- Q6)** a) Describe Micro-metrological changes and behaviour of pests and diseases. [7]  
b) Explain transpiration and crop stress. [5]
- Q7)** Write short notes on any two of the following : [12]  
a) Effects of climate on land transport.  
b) Traction ability.  
c) Urban Heat Island.



Total No. of Questions : 7]

SEAT No. :

P-2549

[Total No. of Pages : 2

[6068]-315

S.Y.M.A./M.Sc.

GEOGRAPHY

**GGUT - 239 : Geography of Rural Development  
(2019 Pattern) (Semester - III) (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 to 7 carry equal marks.*

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

**[10]**

- a) Write any two objectives of rural development.
- b) Name the various types of planning.
- c) What is multilevel planning?
- d) What is mean by MGNREGA?
- e) What is E-Governance?
- f) What is the smart village concept?

**Q2)** a) Describe the concept of Rural Management.

**[7]**

b) Explain economic factors affecting on Rural Development.

**[5]**

**Q3)** a) Explain about the rural development planning in India.

**[7]**

b) What are the problems of grassroot planning?

**[5]**

**Q4)** a) Discuss the various problems of panchayat Raj Institution.

**[7]**

b) What are the major problems of rural education.

**[5]**

*P.T.O.*



- Q5)** a) Discuss about the problems of Rural development planning. [7]  
b) Describe the role of Regional Rural Bank. [5]
- Q6)** a) Discuss about the concept of Rural Housing. [7]  
b) Explain the role of NABARD in rural development. [5]
- Q7)** Write a short notes on any two of the following. [12]  
a) District planning.  
b) Green Revolution and Rural Development.  
c) Integrated Rural Development programme.



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Total No. of Questions : 7]

SEAT No. :

P-2550

[Total No. of Pages : 2

**[6068]-316**  
**M.A./M.Sc**  
**GEOGRAPHY**  
**GGUT - 240 : Urban Geography**  
**(2019 Pattern) (Semester - III) (Credits - 4)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates :*

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

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

**[10]**

- a) Define - Urban settlement.
- b) Give any two objective of urban studies.
- c) State any two elements of city plan.
- d) What is market principle?
- e) Name any two contemporary factors of urbanization.
- f) Mention any two characteristics of CBD.

**Q2) a) Explain the scope of urban geography.**

**[7]**

b) Elaborate the meaning of urban settlement and concept of urbanization.**[5]**

**Q3) a) Explain the sector theory of morphological pattern of cities.**

**[7]**

b) What is the urbanization curve? Explain in detail.

**[5]**

**P.T.O.**

- Q4)** a) Review the spatio - temporal variation in urbanization of the world. [7]  
b) Give functional classification towns and cities. [5]
- Q5)** a) Is christaller's central place theory applicable for Indian conditions? Explain in detail. [7]  
b) What are the civic amenities problems faced in cities? [5]
- Q6)** a) Which are the contemporary factors of urbanization? [7]  
b) Explain urban development policies in India. [5]
- Q7)** Write short notes on any two of the following : [12]  
a) Central business district.  
b) Age, sex demographic structures in urban areas.  
c) City regions in India.

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Total No. of Questions : 5]

SEAT No. :

P-2551

[Total No. of Pages : 2

[6068]-317

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

GEOGRAPHY

GGUT- 242 : Hydrology

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

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) Question 1 is compulsory.
- 2) Solve any Three question from question No. 2 to question No. 5.
- 3) Question No. 2 to 5 carry equal marks.

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

- a) Define 'Hydrology'
- b) Give units for measurement of stream flow.
- c) What do you meant by 'Gross Precipitation'.
- d) Define 'Transpiration'.
- e) What is meant by 'Hail'.
- f) Define 'Depression storage'.

**Q2)** a) Describe the hydrologic budget. [6]

b) Write note on sources of hydrologic data. [4]

**Q3)** a) Explain the probable maximum precipitation. [6]

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

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

b) Write a note on evopotranspiration. [4]

P.T.O.

**Q5)** Write any two of the following :

**[10]**

- a) Describe the application of hydrology.
- b) Write a note on 'Through full.
- c) Explain the methods of evaporation control.

**\*\*\***

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Total No. of Questions : 5]

SEAT No. :

P-2552

[Total No. of Pages : 2

**[6068]-318**  
**M.A/M.Sc.**  
**GEOGRAPHY**  
**GGUT-243 : Watershed Management**  
**(2019 Pattern) (Semester - III) (Credit-2)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Question 1 is compulsory.*
- 2) *Solve any three questions from Q.No. 2 to Q.No. 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 transpiration?
- d) What is the main objective of integrated watershed development plan?
- e) What is meant by 'Nala Bunding'?
- f) Define the precipitation.

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

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

**Q3)** a) Explain the interception and infiltration process in watershed. **[6]**

b) Describe the physiography and drainage characteristics of watershed. **[4]**

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

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

**P.T.O.**

**Q5)** Write any two of the following :

**[10]**

- a) Explain necessity of watershed management.
- b) Write note on delineation of watershed.
- c) Describe contour bunding and gully plugging methods for soil conservation.



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Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

**P2553**

**[6068]-411**

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

**GEOGRAPHY**

**GGUT-249 : GEOGRAPHY OF INDIA**

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

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions 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.*
- 4) *Use of map stencil is allowed.*

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

- a) Which is the southernmost place of India.
- b) Name the longest west flowing river of India.
- c) Name the place of highest rainfall in India.
- d) State any Atomic power project in India.
- e) State the place of India in the world terms of population density.
- f) Name any two iron and steel industries in India.

**Q2)** a) Write the main physiographic divisions of India and describe the coastal lands. **[7]**

b) Describe any west flowing river drainage system in India. **[5]**

**Q3)** a) Write the Indian weather seasons and explain any one with associated weather conditions. **[7]**

b) Describe major soil types and its distribution in India. **[5]**

**P.T.O.**



- Q4)** a) Write the impact of physical components on forest types and their distribution in India. [7]  
b) What are the main reasons of Deforestation in India. [5]
- Q5)** a) Discuss the distribution and utilization of any type of energy resources in India. [7]  
b) Write distribution & utilization of iron ore mineral in India. [5]
- Q6)** a) Describe the distribution and production of major crops in India. [7]  
b) Write major environmental factors affecting Indian Agriculture. [5]
- Q7)** Write short notes on any two of the following. [12]  
a) Growth of population in India.  
b) Religious population composition on India.  
c) Problems of Industrial development in India.



Total No. of Questions : 7]

SEAT No. :

P-2554

[Total No. of Pages : 2

[6068]-412

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

GEOGRAPHY

GGUT-250 : Oceanography  
(2019 Pattern)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Q1 is compulsory.
- 2) Solve any five from Q2 to Q7.
- 3) Question 2 to 7 carry equal marks.

Q1) Solve any five of the following :

[10]

- a) What is Applied oceanography?
- b) What is Panthalassa?
- c) What is divergent plate boundary?
- d) What is continental slope?
- e) What is 'halodine'?
- f) Give two examples of biogenous sediments.

Q2) a) Define Oceanography. Explain the physical & chemical oceanography in details. [7]

b) Describe the contribution of oceanographers in the subject. [5]

Q3) a) Explain sea floor spreading theory in details. [7]

b) What is convergent boundary? Explain the ways of convergence occurrence. [5]

P.T.O.

- Q4)** a) What is ocean bottom relief? Explain the features of deep ocean. [7]  
b) Explain ocean bottom relief of Atlantic ocean. [5]
- Q5)** a) Explain the inter-relation between ocean water temperature and density. [7]  
b) Describe the continental shelf and rise with proper illustration. [5]
- Q6)** a) Explain in brief about hydrogenous sediments. [7]  
b) Give the evidences of continental drift theory. [5]
- Q7)** Write short notes on any two of the following : [12]  
a) Carbonate cycle  
b) Coral reefs and its types  
c) Exploited resources



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 1

**P2555**

**[6068]-413**

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

**GEOGRAPHY**

**GGUT - 251 : Research Methodology  
(2019 Pattern) (CBCS) (Semester - IV)**

*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) What is Research?
- b) State Research Design.
- c) What is secondary data?
- d) What is standard deviation?
- e) Name any two plagiarism detection software's.
- f) What is foot note?

**Q2) a) What is hypothesis? Discuss the different types of hypothesis. [7]**

b) Explain the objectives of research. [5]

**Q3) a) Differentiate between the interview and questionnaire methods. [7]**

b) What is purpose of research design? [5]

**Q4) a) Discuss the techniques involved in defining a research problem. [7]**

b) Explain the correlation and regression analysis. [5]

**Q5) a) List and explain any three types of research reports. [7]**

b) Discuss the concept of research ethics. [5]

**Q6) a) What are the advantages and disadvantages of sampling? [7]**

b) Explain different types of research. [5]

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

- a) Sample design.
- b) Literature review.
- c) Research methodology.



Total No. of Questions : 5]

SEAT No. :

**P2556**

[Total No. of Pages : 1

**[6068]-414**  
**M.A/M.Sc. (Part - II)**  
**GEOGRAPHY**  
**GGUT - 252 : Geography of Soil**  
**(2019 Pattern) (CBCS) (2 Credit) (Semester - IV)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Q. 1 is compulsory.*
- 2) *Solve any three questions from Q2 to Q5.*
- 3) *Question 2 to Q5 carry equal marks.*

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

- a) How do you define soil.
- b) Topmost horizon of soil is called by which name.
- c) Which are the major factors of soil formation.
- d) Write any two component of soil.
- e) Name the layers of soil profile.
- f) Which are the biological characteristics of the soil.

**Q2)** a) Discuss the primary and secondary nutrients in the soils. **[6]**

b) Write a note on effect of climate in formation of soil. **[4]**

**Q3)** a) Explain the characteristics of soils. **[6]**

b) Write note on methods of soil conservation. **[4]**

**Q4)** a) Discuss the types of soils with reference to India. **[6]**

b) Write a note on salinization and soil health. **[4]**

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

- a) Discuss component of soil.
- b) Role of Remote sensing and GIS in soil conservation in India.
- c) Write a note on nature & scope of soil geography.



Total No. of Questions : 5]

SEAT No. :

**P2557**

[Total No. of Pages : 2

**[6068]-415**

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

**GEOGRAPHY**

**GGUT - 254 : Political Geography**

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

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Q. 1 is compulsory.*
- 2) *Solve any three questions from Q2 to Q5.*
- 3) *Question 2 to Q5 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 the term state.
- c) What is nation building?
- d) What is 'No Man Land'?
- e) Who coined the term geopolitics?
- f) What is the name of border line between Indian and china.

**Q2)** a) Describe the nature of political geography.

**[6]**

b) Write note on origin of state.

**[4]**

**Q3)** a) Explain the morphological classification of boundary.

**[6]**

b) Describe geostrategic view of Mackinder.

**[4]**

**P.T.O.**

**Q4) a)** Discuss the problems of border state of India. [6]

b) Write note on modern Geopolitics. [4]

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

a) Historical development of political geography.

b) Border dispute between India and Pakistan.

c) Godavari river water dispute.



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Total No. of Questions : 5]

SEAT No. :

**P2558**

[Total No. of Pages : 2

**[6068]-416**

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

**GEOGRAPHY**

**GGUT - 255 : Regional Planning**

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

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

- 1) *Q. 1 is compulsory.*
- 2) *Solve any three questions from Q. No.2 to Q. No.5.*
- 3) *Question No. 2 to Q5 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) What is Hierarchy of planning?
- b) What is planning region?
- c) Write any two advantages of survey for regional planning.
- d) What is meant by district level planning?
- e) Define command area.
- f) Write any two role of Geographer in regional planning.

**Q2)** a) Describe the types of planning.

**[6]**

b) Write note on regional development.

**[4]**

**Q3)** a) Explain types of survey in regional planning.

**[6]**

b) Write short note on Block level planning.

**[4]**

**P.T.O.**



**Q4)** a) Discuss in detail the concept of regionalisation. [6]

b) Write a note on types of planning. [4]

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

a) Measurement of regional development.

b) Regional survey.

c) Planning of metropolitan region.



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Total No. of Questions : 7]

SEAT No. :

P-2559

[Total No. of Pages : 2

**[6068]-417**  
**M.A./M.Sc.**  
**GEOGRAPHY**  
**GGUT-258 : Geography of World**  
**(2019 Pattern) (Semester - IV)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

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

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

**[10]**

- a) Enlist any two mountain ranges in the world.
- b) Write any two consequences of climate change.
- c) Which planet has largest satellites in our solar system.
- d) Define the term 'Terrorism'.
- e) Give any two examples of religious conflicts in the world.
- f) Define the term 'Refugee'.

**Q2)** a) Give an account on origin of Earth and Solar System.

**[7]**

b) Explain mineral resources of Europe.

**[5]**

**Q3)** a) Discuss the major border dispute in the world.

**[7]**

b) Explain the origin and spread of covid 19 Pandemic.

**[5]**

**Q4)** a) Explain the pattern of population growth in Asia continent.

**[7]**

b) Write Note on terrorism affected areas of the world.

**[5]**

**P.T.O.**

- Q5)** a) Discuss various population related issues in 21<sup>th</sup> Century. [7]  
b) Give details on WTO any IMF. [5]
- Q6)** a) Explain in details physiographic divisions of North America. [7]  
b) Write food security of world. [5]
- Q7)** Write a short note on any two of the following : [12]  
a) Pacific Ocean  
b) Agricultural Practices in North America  
c) Climate change

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