

Total No. of Questions : 7]

SEAT No. :

PC3858

[Total No. of Pages : 2

[6341]-101

M.A/M.Sc.- I

GEOGRAPHY

**GGUT-111: Principles of Geomorphology
(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.No. 2 to Q.No. 7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

Q1) Solve any five of the following. (Around 20 Words each) [10]

- a) Define geomorphology with examples.
- b) What is isostasy?
- c) Define weathering.
- d) What is river metamorphosis?
- e) What are major segments of hill slopes?
- f) Genetic classification of streams.

Q2) a) Write nature and scope of geomorphology. [7]

b) What are major branches of geomorphology? [5]

Q3) a) Write theory of plate tectonics in brief. [7]

b) What is Holmes convectional current theory? [5]

P.T.O.

- Q4)** a) Describe physical weathering processes. [7]
b) What are types of mass movement? [5]
- Q5)** a) What are hill slope processes and forms? [7]
b) Describe the Davis model of hill slope development. [5]
- Q6)** a) Explain drainage basin and drainage network patterns. [7]
b) Write fluvial erosional, transportation and depositional processes. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Erosional, transportation and depositional processes of glaciers.
b) Coastal erosion and deposition.
c) Aeolian processes of erosion, transportation and deposition.
- .

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Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

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[6341]-102

First Year M.A./M.Sc.

GEOGRAPHY

**GGUT-112: Principles of Climatology
(CBCS 2019 Pattern) (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 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 meteorology.
- b) Write the composition of atmosphere.
- c) What is mean by greenhouse effect.
- d) Define atmospheric pressure.
- e) What is lapse rate?
- f) Define anticyclones.

Q2) a) Explain the causes of ozone layer depletion.

[7]

b) Discuss the neat budget of the earth.

[5]

Q3) a) Describe the factors affecting distribution of air pressure.

[7]

b) Explain geostrophic wind and gradient wind in detail.

[5]

Q4) a) Define wind. Write various types of local winds.

[7]

b) What is precipitation? Explain the types of precipitation.

[5]

P.T.O.

- Q5)** a) Define atmospheric moisture. Discuss the various types of humidity.[7]
b) Discuss on dry and wet adiabatic lapse rate. [5]

- Q6)** a) What is atmospheric stability? Discuss on absolute stability and absolute instability. [7]
b) Explain the various types of air masses. [5]

- Q7)** Write short notes on any two of the following. [12]
a) Evolution of earth's atmosphere.
b) Hydrologic cycle.
c) Heat and temperature.



Total No. of Questions : 7]

SEAT No. :

PC3860

[Total No. of Pages : 2

[6341]-103

First Year M.A./M.Sc.

GEOGRAPHY

**GGUT-113 : Principles of Economic Geography
(CBCS 2019 Pattern) (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 to map stencil is allowed.*

Q1) Solve any five of the following :

[10]

- a) What is commodity approach?
- b) Define resources.
- c) Define Take-off stage of Rostow's model.
- d) Enlist positive effects of globalization.
- e) Define international trade.
- f) Enlist the advantages of non-conventional energy resources.

Q2) a) Describe emerging trends in economic geography.

[7]

b) Discuss modern approach to the study of economic geography.

[5]

Q3) a) Explain the natural factors responsible for regional disparity in India.**[7]**

b) Give the classification of countries on the basis of economic development.**[5]**

P.T.O.

Q4) a) Discuss the influence of Physical Factors on the location of economic activities. [7]

b) Describe significance of privatization. [5]

Q5) a) Critically evaluate weber's model of industrial location. [7]

b) Explain the problems of international trade with reference to India. [5]

Q6) a) Explain dynamic and applied nature of economic geography. [7]

b) Discuss the significance of green revolution in India's economic development. [5]

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

a) Tertiary economic activities.

b) Agro-tourism.

c) Myrdal's model.

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Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PC3861

[6341]-104

M.A./M.Sc. -I

GEOGRAPHY

**GGDT - 114 : Principles of Population and Settlement Geography
(2019 CBCS Pattern) (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 stencils is allowed.*

Q1) Solve any five of the following.

[10]

- a) Define population geography.
- b) What is population density?
- c) Define migration.
- d) What is central business district?
- e) What is urban agglomeration?
- f) What is dispersion?

Q2) a) Explain the stages of urbanization.

[7]

b) Describe the concept of Rank size rule.

[5]

Q3) a) Explain the demographic transition model.

[7]

b) Justify the fertility, mortality and migration as components of population growth.

[5]

P.T.O.

- Q4)** a) Explain the physical factor affecting distribution of population. [7]
b) Describe the concept of migrant and migration. [5]
- Q5)** a) Discuss the Malthus theory of population. [7]
b) Explain the socio-economic factors affecting sex ratio. [5]
- Q6)** a) Describe various patterns of settlement. [7]
b) Simplify the rural-urban dichotomy. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Approaches to study population geography.
b) Nearest neighbour analysis.
c) Measures of death rates.



Total No. of Questions :7]

SEAT No. :

PC3862

[6341]-201

[Total No. of Pages :2

First Year M.A./M.Sc.

GEOGRAPHY

GGUT-121: Geoinformatics-I

(2019 Pattern) (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) *Question 2 to 7 carry equal marks.*

Q1) Solve any five of the following .

[10]

- a) Which are the elements of GIS ?
- b) Define attribute query.
- c) What is ratio scale?
- d) What is digitization?
- e) Write full form of DBMS.
- f) Define non - spatial data .

Q2) a) Describe the applications of GIS.

[7]

b) Explain manual and automatic digitization.

[5]

Q3) a) What is topology ? Explain the concept of topology building with suitable diagram.

[7]

b) Compare the raster and vector data .

[5]

Q4) a) Describe the types of query analysis and explain SQL .

[7]

b) Explain the error detection and editing in digitizing process.

[5]

P.T.O.

- Q5)** a) Describe an account of history of GIS. [7]
b) Explain Focal grid operations in GIS giving suitable examples. [5]
- Q6)** a) Differentiate between nominal and ordinal scale of measurement with examples. [7]
b) Explain the hierarchical and network data models. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Spatial relationship
b) GIS tasks
c) Hardware and software requirement of GIS



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PC3863

[6341]-202

First Year M.A./M.Sc.

GEOGRAPHY

GGUT - 122 : Coastal Geomorphology

(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Q.1. is compulsory.*
- 2) *Attempt any five questions from Q.2. to Q.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencils is allowed.*

Q1) Answer any five of the following.

[10]

- a) What is coast?
- b) Define wave length.
- c) What is semidiurnal tide?
- d) What is transgression of sea level?
- e) What are clastic sediments?
- f) What is delta front?

Q2) a) Explain the wave refraction in detail.

[7]

b) Write a note on 'Tide and coastal landforms'

[5]

Q3) a) Give the properties of clastic and biogenic sediments.

[7]

b) Discuss various pathways of sediment transport.

[5]

P.T.O.

- Q4)** a) Give the process of formation and morphology of sea cliffs and caves. [7]
b) Write a detail note on coral and coral reefs. [5]
- Q5)** a) Give an account of components of coastal system. [7]
b) Write a note on genetic and morphological classification of coast. [5]
- Q6)** a) Write a note on sea level rise as a current coastal issue. [7]
b) Discuss different methods of coastal conservation. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Types of wave breakers.
b) Mangrove swamp and salt marshes.
c) Euastatic sea level change.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

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[6341]-203

First Year M.A./M.Sc.

GEOGRAPHY

**GGUT-123: Synoptic Climatology
(2019 Pattern) (Semester - II)**

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 7 carry equal marks.*
- 4) *Draw figures / maps wherever necessary.*
- 5) *Use of map stencils and calculator is allowed.*

Q1) Solve any five of the following.

[5×2=10]

- a) What do you mean by synoptic charts?
- b) What do you mean by easterly waves?
- c) What are Tornadoes?
- d) Give the types of fronts.
- e) Write the types of fog.
- f) Give the methods of weather forecasting.

Q2) a) Describe the scope of synoptic climatology.

[7]

b) Explain the reporting system of weather data by Indian meteorological Department.

[5]

Q3) a) Explain the process of formation of tropical cyclones.

[7]

b) Describe the Air masses of Europe.

[5]

Q4) a) Explain the structure of thunderstorm.

[7]

b) Describe the life cycle of hurricanes.

[5]

P.T.O.

- Q5)** a) Give the classification of clouds. [7]
b) Explain the application of synoptic climatology in aviation. [5]
- Q6)** a) Explain the types of weather forecasting. [7]
b) Describe the idealized weather associated with wave cyclone. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Laws of motion.
b) Principle zones of frontogenesis.
c) Application of synoptic climatology in Agriculture.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

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[6341]-204

First Year M.A./M.Sc.

GEOGRAPHY

**GGUT-124 : Agricultural Geography
(2019 Pattern) (Semester - II)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Q. No. 1 is compulsory.*
- 2) *Attempt any five questions from question 2 to 7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencils and calculator is allowed.*

Q1) Solve any five of the following :

[10]

- a) What is meant by plantation agriculture?
- b) Define drought.
- c) Write two characteristics of intensive agriculture.
- d) What is meant by crop combination?
- e) Define waste land management.
- f) What is agro-tourism?

Q2) a) Describe nature of Agriculture Geography.

[7]

b) How economic factors affect on agriculture?

[5]

Q3) a) Explain types of commercial agriculture.

[7]

b) Which are the problems of mixed farming?

[5]

P.T.O.

- Q4)** a) Explain limitations of intensive subsistence farming. [7]
b) Commodity approach is important. Give your views. [5]
- Q5)** a) Explain views of Whittlesey in agricultural regionalization. [7]
b) Describe agriculture regions of India. [5]
- Q6)** a) Which social factors affects on agriculture? [7]
b) Explain crop rotation in detail. [5]
- Q7)** Write short notes on any two of the following : [12]
a) Agro-forestry
b) Agro based industries.
c) Green revolution as boon.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

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[6341]-205

First Year M.A./M.Sc.

GEOGRAPHY

**GGUT-125: Population Geography
(2019 Pattern) (Semester - II)**

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) *Question 2 to 7 carry equal marks.*
- 4) *Draw figures maps wherever necessary.*
- 5) *Use of map stencils and calculatar is allowed.*

Q1) Solve any five of the following.

[5×2=10]

- a) Define the term 'morbidity'.
- b) Enlist the name of the countries with highest density of population.
- c) Use of sample registration survey?
- d) Write any two laws of migration.
- e) What do you mean by 'Internal migration'.
- f) What is 'Refugee'?

Q2) a) Describe the determinates of population growth.

[7]

b) Write a note on 'Gender development Index'.

[5]

Q3) a) Discuss Malthus theory in details.

[7]

b) Explain the consequences of migration.

[5]

Q4) a) Discuss the measures of fertility in details.

[7]

b) Explain the new population policy in china.

[5]

P.T.O.

- Q5)** a) Explain economic as a composition of population. [7]
b) Elaborate Lee's theory of migration. [5]
- Q6)** a) Elaborate the population distribution in the world. [7]
b) Discuss the demographic transition model's application to India. [5]
- Q7)** Write a note on (any two) [12]
a) Push-Pull factor of Migration.
b) Nature of population Geography.
c) Human Development Index.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

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[6341]-206

First Year M.A./M.Sc.

GEOGRAPHY

GGUT - 126 : Fluvial Geomorphology

(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No. 1 is compulsory.*
- 2) *Attempt any five questions from question 2 to question 7.*
- 3) *Question 2 to 7 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencils and calculator is allowed.*

Q1) Solve any five of the following.

[5×2=10]

- a) Define a drainage basin.
- b) What is a hydrograph?
- c) Define the term shear stress.
- d) Mention any two erosional landforms of bedrock channel.
- e) What is a Yazoo stream?
- f) Define river metamorphosis.

Q2) a) Discuss the Glock's model of drainage network development. **[7]**

b) Explain the terms overland flow and through flow. **[5]**

Q3) a) Describe the discharge measurement methods in a river system. **[7]**

b) Explain the cross section morphology of a river. **[5]**

P.T.O.

- Q4)** a) Discuss channel morphology with respect to river categories. [7]
b) Explain the process of formation of alluvial fans. [5]
- Q5)** a) Discuss the concept of At - a station hydraulic geometry. [7]
b) Explain the concept of grade. [5]
- Q6)** a) Give an account of midchannel and bank attached channel forms. [7]
b) Explain the concept of river metamorphosis. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Drainage basin and stream network
b) Capacity and competence
c) Anabranching channel pattern



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

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[6341]-207

First Year M.A./M.Sc.

GEOGRAPHY

GGUT - 127 : Monsoon Climatology

(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question 1 is compulsory.*
- 2) *Attempt any five questions from questions 2 to 7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencils and calculator is allowed.*

Q1) Solve any five of the following.

[10]

- a) What is meant by aerological?
- b) What is onset of monsoon.
- c) Give full form of MONEX.
- d) Define monsoon climatology.
- e) Enlist any two effects of EL Nino.
- f) Define Easterly Jet.

Q2) a) Describe monsoon on non - rotating earth.

[7]

b) Explain variability of summer monsoon rainfall.

[5]

Q3) a) Explain driving mechanism of monsoon.

[7]

b) How ocean effects on upper atmosphere?

[5]

P.T.O.

- Q4)** a) Discuss parametric model and power regression. [7]
b) Differentiate offshore and onshore vertices. [5]
- Q5)** a) Explain realistic monsoon model. [7]
b) Describe North Atlantic Oscillation (NAO). [5]
- Q6)** a) Describe scope of Monsoon climatology. [7]
b) Explain Mid - tropospheric disturbances. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Principles of North Atlantic Oscillation.
b) System of low pressure
c) Role of Tibetan plateau in Monsoon.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

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[6341]-208

First Year M.A./M.Sc.

GEOGRAPHY

**GGUT - 128 : Industrial Geography
(2019 Pattern) (Semester - II)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question 1 is compulsory.*
- 2) *Attempt any five questions from question 2 to question 7.*
- 3) *Question 2 to 7 carry equal marks.*
- 4) *Draw figures/diagrams wherever necessary.*
- 5) *Use of map stencils and calculator is allowed.*

Q1) Solve any five Questions of the following.

[10]

- a) Mention any two economical factors of effecting on industries.
- b) Mention the physical factors for industrial development.
- c) What is industrial linkages.
- d) Mention any two problems of tourism industry.
- e) What is meant by SEZ.
- f) Write any two problems of agro - based industries in Maharashtra.

Q2) a) Explain the scope of industrial geography.

[7]

b) Describe the physical factors of industrial location.

[5]

Q3) a) Explain the footloose industry in details.

[7]

b) Describe Israd's model of industrial location.

[5]

P.T.O.

- Q4)** a) Explain the problem of chemical industry in India. [7]
b) Write the characteristics of industrial regions in India. [5]
- Q5)** a) Explain the agro - based industry in India. [7]
b) Explain the industrial regions in Japan. [5]
- Q6)** a) Describe the major IT hubs in India. [7]
b) What is globalization? Write the impact of it on IT industry. [5]
- Q7)** a) What is meant by FDI? Explain the role of FDI in development of Indian industry. [7]
b) Describe the problems of tourism industry in India. [5]



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

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[6341]-209

M.A./M.Sc. -I

GEOGRAPHY

GGUT-129 : Geography of Rural Settlements

(2019 Pattern) (Semester-II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question 1 is compulsory.*
- 2) *Attempt any five questions from question 2 to question 7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Draw figures /maps wherever necessary.*

Q1) Solve any five of the following:

[5×2=10]

- a) Define settlement geography.
- b) What is dispersion?
- c) What is modern high rise house type?
- d) Define centrality.
- e) Define rural settlement.
- f) Write down four factors affecting settlement sites situation.

Q2) a) Explain the factors affecting growth of rural settlements.

[7]

b) Describe the functional growth of rural settlements.

[5]

Q3) a) Explain the factors affecting dispersion and nucleation of settlements.[7]

b) Describe the historical and cultural aspects of rural settlements.

[5]

P.T.O.

- Q4)** a) Explain the economic organization within villages in rural settlements. [7]
b) Describe the Ricardo theory of rural land use. [5]
- Q5)** a) Explain the demographic characteristics of rural settlements. [7]
b) Explain the seasonal migration. [5]
- Q6)** a) Explain the physical and social factors affecting rural house types. [7]
b) Describe the modern forms of rural settlement in Maharashtra. [5]
- Q7)** Write short notes on any two of the following: [12]
a) Land Tenancy System.
b) Methods of the measuring degree of dispersion.
c) House type of rural settlement in Maharashtra.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

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[6341]-210

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) *Attempt any three questions from question 2 to 5.*
- 3) *Question 2 to question 5 carry equal marks.*
- 4) *Draw figures /maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

Q1) Solve any five of the following:

[5]

- a) Define the tourist.
- b) What is Agro-tourism?
- c) Name any two religious tourist places of India.
- d) Write any two types of accommodation.
- e) Give two characteristics of adventure tourism.
- f) Define the term 'Hill station'.

Q2) a) Explain the importance of tourism.

[6]

b) Explain the importance of beaches and waterfall in tourism.

[4]

Q3) a) Discuss various tourism types based on number of tourists.

[6]

b) Explain Mahabaleshwar as a tourist place.

[4]

P.T.O.

Q4) a) Describe the various historical factors that attract the tourist. [6]

b) Distinguish between hotel and youth hostel. [4]

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

a) Motels

b) Climate and tourism

c) Need of transportation in tourism

d) Eco-tourism

e) Importance of tourism in Indian economy.

f) International tourism



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

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[6341]-211

First Year M.A./M.Sc.

GEOGRAPHY

GGDT-132 : Geography of Disaster Management

(2019 Pattern) (Semester-II)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

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

Q1) Solve any five of the following:

[5]

- a) Define disaster management.
- b) What is risk assessment?
- c) Importance of disaster mapping.
- d) Elements of post-disaster management.
- e) Define atmospheric disaster.
- f) What do you mean by lockouts?

Q2) a) Explain the causes and effects of landslide.

[6]

b) Discuss various types of strikes.

[4]

Q3) a) Explain the economic impact of tsunami.

[6]

b) Discuss the role of police force in calamities.

[4]

P.T.O.

Q4) a) Discuss the use and application of modern technology in emergency communication. [6]

b) Discuss the role of Remote Sensing in disaster management. [4]

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

a) Pre-disaster management

b) Disaster mitigation

c) Global impact of terrorism

d) Climate change and forest fire

e) Management of earthquake

f) Effects of food poisoning



Total No. of Questions : 7]

SEAT No. :

PC3873

[Total No. of Pages : 2

[6341]-301
M.A/M.Sc.- II
GEOGRAPHY
GGUT-235 : Geoinformatics - II
(2019 Pattern) (Semester - III)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

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

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

- a) Define remote sensing.
- b) What is black body radiation?
- c) Write any two names of the earth resources satellites.
- d) What is the meaning of sensor?
- e) What is image resolution?
- f) Write any two characteristics of aerial photography.

Q2) a) Describe the history of Indian remote sensing. **[7]**

b) Explain principles of remote sensing. **[5]**

Q3) a) Explain th image interpretation techniques. **[7]**

b) Write about sensor and scanning. **[5]**

P.T.O.

- Q4)** a) Write in details types and elements of image interpretation. [7]
b) Explain temporal resolution of satellite image. [5]
- Q5)** a) Describe characteristics of aerial photograph. [7]
b) Write note on Geometry of an aerial photograph? [5]
- Q6)** a) Explain the interaction of EMR with atmosphere. [7]
b) Write in brief about the types of platforms. [5]
- Q7)** Write short note of the following. (any two) [12]
a) Aerial camera
b) SPOT satellite series
c) ISRO

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Total No. of Questions : 7]

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[6341]-302

M.A./M.Sc. - II

GEOGRAPHY

**GGUT-236: Geographical Thoughts
(2019 Pattern) (Semester - III) (60322)**

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) *Question 2 to 7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

Q1) Solve any five of the following. (Around 20 words each)

[10]

- a) Name any two Greek Geographers.
- b) Name the book written by Ptolemy.
- c) What is possibilism?
- d) What is hypothesis in Geography?
- e) Define experimental studies.
- f) What is natural hazard?

Q2) Attempt the following:

- a) Describe the contribution of Vasco da Gama in Geography. **[7]**
- b) Write contribution of Ritter in Geography. **[5]**

Q3) Attempt the following:

- a) Describe in detail about determinism in Geography. **[7]**
- b) Write note on theories in Geography. **[5]**

P.T.O.

Q4) Attempt the following:

- a) Write a brief account of British school of thought. [7]
- b) Write note on possibilism. [5]

Q5) Attempt the following:

- a) Describe application of statistical techniques in Geography. [7]
- b) Write a note on application of Geography in land use planning. [5]

Q6) Attempt the following:

- a) Explain the system approaches in Geography. [7]
- b) Write a note on Geo-informatics. [5]

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

- a) Application of Geography in resource management planning.
- b) Contribution of Captain Cook in Geography.
- c) Field Survey.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PC3875

[6341]-303

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

GEOGRAPHY

**GGUT-237 : Tropical Geomorphology
(2019 Pattern) (Semester - III) (60323)**

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) Define tropical environment.
- b) What is duricrust?
- c) List the factors influencing on tropical weathering.
- d) Define pediment.
- e) State secondary minerals found in tropics.
- f) What is the process of slope wash?

Q2) a) Distinguish between domed and boulder in selbergs.

[7]

b) Discuss the morphogenetic regions of the tropics.

[5]

Q3) a) Describe laterite profile in detail.

[7]

b) Explain the concept of double surface of planation.

[5]

P.T.O.

- Q4)** a) Describe different processes involved in mass movement. [7]
b) Write relief characteristics of tropical region. [5]
- Q5)** a) Describe solubility and mobility of minerals in tropics. [7]
b) Explain slope formation in the tropics. [5]
- Q6)** a) Explain deep weathering profile. [7]
b) Describe work of river in the tropics. [5]
- Q7)** Write short notes any two of the following : [12]
a) Classification of tropics.
b) Theories of origin of iron in laterite.
c) Role of climatic change in the landform development.

x x x

Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PC3876

[6341]-304

M.A./M.Sc. - II

GEOGRAPHY

GGUT-238 : Applied Climatology

(2019 Pattern) (Semester - III) (60324)

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) What is plant stress?
- b) What is climate extreme?
- c) Name any two air pollutants.
- d) What is canopy transpiration?
- e) What is heating degree day?
- f) Write any two characteristics of urban climate.

Q2) a) Explain the history and development of applied climatology.

[7]

b) Differentiate between evaporation and evapo-transpiration.

[5]

Q3) a) Describe the relationship between climate and soil.

[7]

b) Explain inter relationship between climate and soil.

[5]

P.T.O.

- Q4)** a) Explain the role of climate in determining human behaviour. [7]
- b) What is the impact of urban climate on GEC. [5]
- Q5)** a) Describe the effect of climate on land transport. [7]
- b) How satellite programming is useful for assessment of plant condition?[5]
- Q6)** a) Explain the distribution of temperature in detail. [7]
- b) Describe the causes of urban heat Island. [5]
- Q7)** Write short notes any two of the following : [12]
- a) Scope of applied climatology.
- b) Climate and livestock.
- c) Human bio-meteorology.

x x x

Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PC3877

[6341]-305

M.A./M.Sc. - II

GEOGRAPHY

**GGUT-239 : Geography of Rural Development
(2019 Pattern) (Semester - III) (60325)**

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) Enlist any two elements for rural development.
- b) Define the term 'Demography'.
- c) What is the full form of IRDP?
- d) What do you mean by planning.
- e) Define the term E-Governance.
- f) What is smart village?

Q2) a) Explain the social factor's affecting on rural development. [7]

b) Describe the role of watershed management in rural development. [5]

Q3) a) Discuss about the multi-level planning. [7]

b) Explain the condition of rural health in India. [5]

P.T.O.

- Q4)** a) Write in details about panchayat raj institution. [7]
b) Give an account of problems of education in rural area. [5]
- Q5)** a) Describe the application of GIS in rural development. [7]
b) Write the role of agricultural credit societies in rural development. [5]
- Q6)** a) Give an account of sanitation problem in rural development. [7]
b) Describe the concept of rural connectivity. [5]
- Q7)** Write short notes any two of the following : [12]
a) Hivare Bazar.
b) Problem of Rural Development.
c) Communication.

x x x

Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PC3878

[6341]-306

M.A./M.Sc. - II

GEOGRAPHY

GGUT-240 : Urban Geography

(2019 Pattern) (Semester - III) (60326)

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) What is Urban settlement?
- b) Who propose Sector model?
- c) Write any two characteristics of Urban Population.
- d) What is K-3 principle in Christaller's Central place theory.
- e) What is horizontal growth of cities?
- f) Enlist central government policies for urban development.

Q2) a) Describe nature of Urban Geography.

[7]

b) Explain meaning of Urbanization.

[5]

Q3) a) Describe Park and Burgess models in detailed.

[7]

b) Explain the criteria use for urban classification.

[5]

P.T.O.

- Q4)** a) Describe the density of population in cities. [7]
b) Elaborate the concept of city region. [5]
- Q5)** a) Explain rank size rule with diagram. [7]
b) Write note on Urbanization curve. [5]
- Q6)** a) Describe the causes and consequences of growth of slum. [7]
b) Write note on need of city plan. [5]
- Q7)** Write short notes any two of the following: [12]
a) Urban Geography relation to other discipline.
b) Rank size relationship.
c) Age structure of urban population.

x x x

Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PC3879

[6341]-307

M.A./M.Sc. - II

GEOGRAPHY

GGUT-242: Hydrology

(2019 Pattern) (Semester - III) (60328)

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.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

Q1) Solve any five of the following. (Around 20 words each) **[5]**

- a) Define Hydrology.
- b) Enlist sources of Hydrological data.
- c) What is convectional rainfall?
- d) Define Troughfall.
- e) What is evapotranspiration?
- f) What is net precipitation?

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

b) Write a note on units of hydrologic measurement. **[4]**

Q3) a) Discuss the factors affecting on interception. **[6]**

b) Explain cyclonic rainfall with diagram. **[4]**

Q4) a) Describe the methods of transpiration control. **[6]**

b) Write a note on hydrological Cycle. **[4]**

P.T.O.

Q5) Write short notes any two of the following.

[10]

- a) Hydrological Variables.
- b) Gross precipitation.
- c) Methods of evaporation control.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PC3880

[6341]-308

M.A./M.Sc. - II

GEOGRAPHY

**GGUT-243: Watershed Management
(2019 Pattern) (Semester - III) (60329)**

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.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

Q1) Solve any five of the following (Around 20 words each): **[5]**

- a) What is Watershed?
- b) What is ridge line?
- c) Define Runoff.
- d) Name any two water conservation methods.
- e) Write any two objectives of Integrated Watershed development.
- f) What is interception?

Q2) a) Describe the necessity of Watershed management. **[6]**

b) Write any two Methods of soil conservation. **[4]**

Q3) a) Explain land use, climate and vegetation characteristics of watershed. **[6]**

b) Write a note on applications of GIS in watershed management. **[4]**

Q4) a) Explain importance of watershed Management in national development. **[6]**

b) Write a note on delination of watershed. **[4]**

P.T.O.

Q5) Write short notes any two of the following.

[10]

- a) Nala bunding
- b) Interception and infiltration process
- c) Problems in Watershed management.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PC3881

[6341]-401

M.A./M.Sc - II

GEOGRAPHY

**GGUT - 249 : Geography of India
(2019 Pattern) (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) *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) Which state of India has the highest land area.
- b) Name any two west flowing rivers originate from western Ghat.
- c) Name any two districts of flood prone zone in India.
- d) State any two Hydro Electric project in India.
- e) State the place of India in the world terms of population size.
- f) Name the highest sugar industry state of India.

Q2) a) Name the physiographic divisions of India and describe the Indian Peninsular Plateau. **[7]**

b) Write the major characteristics of Ganga river drainage System. **[5]**

Q3) a) Describe about the India the retreat monsoon and associated weather conditions. **[7]**

b) Write the major soil Conservation measures in India. **[5]**

P.T.O.

- Q4)** a) Write the impact of climate on forest types and their distribution in India. [7]
b) What are the major forest conservation measures in India. [5]
- Q5)** a) Explain the distribution and Utilization of any Mineral in India. [7]
b) Write characteristics of hydroelectric power project in India. [5]
- Q6)** a) Explain significant factors affecting Indian Agriculture. [7]
b) Write the Merits of Green Revolution in India. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Distribution of population in India.
b) Marital Status of Indian population.
c) Major Sugar Industries in India.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PC3882

[6341]-402

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

GEOGRAPHY

**GGUT-250: Oceanography
(2019 Pattern) (Semester - IV)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question 1 is compulsory.*
- 2) *Solve any 5 questions from Q.2 to Q.7.*
- 3) *Question 2 to 5 carry equal marks.*

Q1) Solve any five of the following.

[10]

- a) What is Physical Oceanography?
- b) What is Laurasia?
- c) What is convergent plate boundary?
- d) What is Continental shelf?
- e) What is 'Pycnocline'?
- f) Which sediments are formed by weathering of continental rocks?

Q2) a) Define Oceanography. Explain its nature & scope.

[7]

b) Describe the importance of Oceanography.

[5]

Q3) a) Explain continental drift theory with evidences.

[7]

b) Explain transform plate boundary with examples.

[5]

Q4) a) What is Ocean bottom relief? Explain the features of continental margin.[7]

b) Explain Ocean bottom relief of Pacific Ocean.

[5]

P.T.O.

- Q5)** a) Explain the inter-relation between ocean water temperature and salinity.[7]
b) Describe the abyssal hills & oceanic trenches with proper illustration.[5]
- Q6)** a) Explain in brief about Lithogenous sediments. [7]
b) Describe the post-war Oceanography. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Effects of oceanic pollution.
b) Unexploited resources.
c) Viscosity.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PC3883

[6341]-403

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

GEOGRAPHY

GGUT - 251 : Research Methodology

(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 Q2 to Q7.*
- 3) *Q2 to Q7 carry equal marks.*

Q1) Solve any five of the following.

[10]

- a) What is abstract?
- b) State measures of central tendency.
- c) What is research ethics?
- d) Enlist types of sampling.
- e) State research methodology.

Q2) a) List and explain the various steps involved in the research process. **[7]**

b) State importance of research design in research. **[5]**

Q3) a) Explain the merits and demerits of the interview method. **[7]**

b) What are the characteristics of a good sample? **[5]**

P.T.O.

- Q4)** a) What is the student's T test, and what is it used for in statistical analysis? [7]
b) What is plagiarism detection software? Explain their use. [5]
- Q5)** a) Define methodology and explain why it is important in a research. [7]
b) Describe applications of time series analysis in research. [5]
- Q6)** a) Explain purpose of literature review in research. [7]
b) Discuss the measures of dispersion. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Primary data
b) Funding Agencies in India
c) Z Test



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PC3884

[6341]-404

M.A./M.Sc. -II

GEOGRAPHY

GGUT-252 : Geography of Soil

(2019 Pattern) (Semester-IV) (60424)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *Question 1 is compulsory.*
- 2) *Attempt any three questions from question 2 to 5.*
- 3) *Question 2 to question 5 carry equal marks.*
- 4) *Draw figures /maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

Q1) Solve any five of the following (Around 20 words each): **[5]**

- a) Define soil
- b) What is soil profile?
- c) Write any two biological characteristics of soil.
- d) Which region of Maharashtra found Black soil?
- e) What is pH of Soil?
- f) Define soil degradation.

Q2) a) Describe soil as a natural resource. **[6]**

b) Write a short note on structure of soil profile. **[4]**

Q3) a) Explain air and water as soil component. **[6]**

b) Characteristics of Alluvial soil. **[4]**

P.T.O.

Q4) a) Describe role of RS and GIS in soil conservation. [6]

b) Write on secondary nutrients in soil. [4]

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

a) Methods of soil conservation.

b) Water as a soil component.

c) Climate as a factor of soil formation.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PC3885

[6341]-405

M.A./M.Sc. -II

GEOGRAPHY

**GGUT-254 : Political Geography
(2019 Pattern) (Semester-IV)**

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

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

Q1) Solve any five of the following:

[5]

- a) What is political Geography?
- b) What is Nationalism?
- c) Define forontier.
- d) Define the term geopolitics.
- e) What is the name of border line between India and Pakistan?
- f) What is Heartland?

Q2) a) Describe the scope of political Geography.

[6]

b) Write note on changing political map of India.

[4]

Q3) a) Elaborate the concept of nation and state.

[6]

b) Describe Genetic classification of boundary with suitable examples. **[4]**

P.T.O.

Q4) a) Discuss interstate water dispute in India with suitable examples. [6]

b) Write note on historical development of political Geography. [4]

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

a) Distinguish between frontiers and boundaries.

b) Modern Geopolitics.

c) Geopolitical importance of Indian ocean.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PC3886

[6341]-406

M.A./M.Sc. -II

GEOGRAPHY

GGUT-255 : REGIONAL PLANNING

(2019 Pattern) (Semester-IV) (60427)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

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

Q1) Solve any five of the following (Around 20 words each): **[5]**

- a) What do you mean by planning?
- b) What is Hierarchy of planning?
- c) Write the span of first five year plan.
- d) Write any two names of surveys in regional planning.
- e) Enlist the name of schemes for tribal people.
- f) What do you mean by region.

Q2) a) Give an account of concept of regional planning. **[6]**

b) Write in detail about National Capital Region. **[4]**

Q3) a) Describe the diagnostic survey in detail. **[6]**

b) Explain the measures of regional development. **[4]**

P.T.O.

Q4) a) Write in brief about planning of command areas. **[6]**

b) Describe the causes of regional disparities in India. **[4]**

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

a) Block-level planning

b) Planning of Tribal areas

c) Indicators of development



Total No. of Questions : 7]

SEAT No. :

PC-3887

[Total No. of Pages : 2

[6341]-407

M.A./M.Sc.

GEOGRAPHY

GGUT - 258 : Geography of World

(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) *Q.2 to Q.7 carry equal marks.*

Q1) Write any Five :

[10]

- a) How many continents and ocean's are there in the world.
- b) Who defined geological time scale.
- c) How many planet are there in our solar system.
- d) What is global warming.
- e) What is Globalization?
- f) Define tourism.

Q2) a) Describe the physical feature of South America.

[7]

b) Explain the 21st century's challenge's in the world.

[5]

Q3) a) Describe the relation between climate and population.

[7]

b) Explain the major political issues (Border) in the world.

[5]

Q4) a) Describe major mineral resources in the world.

[7]

b) Describe demographic structure of the world.

[5]

P.T.O.

- Q5)** a) Discuss the health issues (COVID-19). [7]
b) What are the 21st centuries opportunities in the world. [5]
- Q6)** a) Explain the environmental issue (Global Warming) in the world. [7]
b) Explain the recent trend of migration in the world [5]
- Q7) Write short notes on (Any Two) :** [12]
a) Role of WTO and IMF.
b) Geological Time scale.
c) Migration in India.

