

Total No. of Questions : 7]

SEAT No. :

PD-3361

[Total No. of Pages : 2

[6481]-11
M.A./M.Sc.
GEOGRAPHY
GGUT-111: Principles of Geomorphology
(2019 Pattern) (Semester - I) (CBCS)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidate:

- 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) Answer any five of the following :

[10]

- a) Define weathering.
- b) Mention the names of hill slope evolution models
- c) Write the names of different drainage patterns.
- d) What are glaciers?
- e) What is pangaean.
- f) Define drainage basin

Q2) a) Write a note on basic concepts in geomorphology

[7]

b) Explain with suitable diagram the internal structure of the earth.

[5]

P.T.O.

- Q3)** a) Give an account of 'Global isostatic adjustment'. [7]
b) Explain the process of folding and give landforms associated with folding. [5]
- Q4)** a) Explain the chemical weathering with suitable examples. [7]
b) Explain the process and types of mass movement. [5]
- Q5)** a) Give the genetic classification of streams. [7]
b) Discuss the davisian cycle of erosion. [5]
- Q6)** a) What is glacier? Give the types of glaciers. [7]
b) Describe the landforms produced by the erosional work of glaciers. [5]
- Q7)** Write a short note on any two : [12]
a) History of geomorphology
b) Landforms associated to faulting
c) Coastal erosional landforms.



Total No. of Questions : 7]

SEAT No. :

PD-3362

[Total No. of Pages : 2

[6481]-12
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) *Q.No. 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) Give the meaning of weather.
- b) What is front?
- c) Define relative humidity.
- d) What is atmospheric pressure?
- e) What is normal lapse rate?
- f) What do you mean by composition of atmosphere?

Q2) a) Explain the heat budget of the atmosphere.

[7]

b) Explain the effects of atmosphere on insolation.

[5]

Q3) a) Explain the factors affecting winds.

[7]

b) Describe types of inversion of temperature.

[5]

Q4) a) Explain the factors affecting insolation.

[7]

b) Explain the jet streams.

[5]

P.T.O.

- Q5)** a) Explain the absolute instability of the atmosphere. [7]
b) Explain the conditional instability. [5]
- Q6)** a) Discuss the types of fronts. [7]
d) Classify the various air masses. [5]
- Q7) Write short notes on any Two of the following :** [12]
a) Tropical climatology
b) Ozone layer
c) Electromagnetic spectrum



Total No. of Questions : 7]

SEAT No. :

PD-3363

[Total No. of Pages : 2

[6481]-13
M.A./M.Sc.
GEOGRAPHY
GGUT 113 : Principles of Economic Geography
(2019 Pattern) (CBCS) (Semester - I)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Q.No. 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) Define Economic Geography.
- b) Write any four names of primary economic activities.
- c) What do you mean by Human Resource?
- d) What is trade?
- e) Write two characteristics of green revolution of India.
- f) Define the term 'Agro-based industry'.

Q2) a) Discuss the major problems of international trade.

[7]

b) Explain the various means of communication.

[5]

Q3) a) Explain the nature of Economic Geography.

[7]

b) Discuss the significance of forest and mineral resources in economic development.

[5]

Q4) a) Describe the classification of economic activities.

[7]

b) Explain the major assumption of Von Thunen Theory.

[5]

P.T.O.

- Q5)** a) Describe the Rostow's model in detail. [7]
b) Explain the relationship between solar energy and sustainable development. [5]
- Q6)** a) Write major advantages and disadvantages of road transportation. [7]
d) Explain the problems and prospects of agro-based industries in maharashtra. [5]
- Q7) Write short notes any Two of the following :** [12]
a) Need of new green revolution in India.
b) Globalization and economic development.
c) Problems of agro-based industries in maharashtra.



Total No. of Questions : 7]

SEAT No. :

PD-5223

[Total No. of Pages : 2

[6481]-14R
M.A./M.Sc.
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) *Attempt any Five questions from Q.2 to Q.7.*
- 3) *Questions 2 to Q.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) Enlist any two approaches of settlement Geography.
- b) Write the definition of 'Mortality'.
- c) What do you meant by 'Age structure'?
- d) Define the term 'Immigration'.
- e) What is 'Hamlet'?
- f) What is meaning of 'Urban place'?

Q2) a) Describe the concept of dependency ratio.

[7]

b) Discuss about Morbidity.

[5]

Q3) a) Explain the trend of population growth in India.

[7]

b) Describe the educational composition of population.

[5]

P.T.O.

- Q4)** a) Discuss the types of population density. [7]
b) Explain the problems of urban-rural fringe. [5]
- Q5)** a) Describe the concept of nearest neighbour analysis. [7]
b) Elaborate the problems of baby boom. [5]
- Q6)** a) Explain the development of population geography as a discipline. [7]
b) Discuss aging of population as a problem. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Central Business District (CBD)
b) Dispersion of settlement
c) Crude Birth rate



Total No. of Questions : 7]

SEAT No. :

PD-3365

[Total No. of Pages : 2

[6481]-21

M.A./M.Sc. (Part - 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) What is cyclic data?
- b) Define attribute query.
- c) What is logical relationship?
- d) What is ratio scale?
- e) Define topology building.
- f) What is local grid operation?

Q2) a) Discuss the advantages of vector data models.

[7]

b) Explain SQL.

[5]

Q3) a) Give the advantages of DBMS.

[7]

b) Explain the types of Digitization.

[5]

Q4) a) What do you understand by spatial database?

[7]

b) Explain Functional relationship.

[5]

P.T.O.

- Q5)** a) Describe the conceptual models. [7]
b) Explain the local and focal grid operations in spatial data analysis. [5]
- Q6)** a) Discuss the map algebra in data analysis. [7]
b) Explain raster data model. [5]
- Q7)** Write short notes on any two of the following. [12]
a) GIS application.
b) Automatic digitization.
c) Nominal and ratio scale.



Total No. of Questions : 7]

SEAT No. :

PD-3366

[Total No. of Pages : 2

[6481]-22

M.A./M.Sc. - I

GEOGRAPHY

GGUT - 122 Coastal Geomorphology

(2019 Pattern) (Semester -II) (Credit - 4)

Time : 3 Hours]

[Max. Marks : 70

Instruction 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 stencil is allowed.*

Q1) Solve any Five of the following:

[10]

- a) What is a temporal scale in coastal geomorphology?
- b) What are the three different types of breaker waves?
- c) Mention the consequences of sea level changes.
- d) Define blow hole.
- e) Define Tsunami.
- f) Enlist the method of coastal conservation.

Q2) a) Define tide and illustrate the various coastal land formed produced by the coastal processes. **[7]**

b) Discuss on flood and ebb currents. **[5]**

Q3) a) Illustrate the tide-dominated coasts with suitable examples. **[7]**

b) Explain in detail quaternary Sea level changes. **[5]**

P.T.O.

- Q4)** a) Explain the properties and illustrate the various types of coastal sediments. [7]
b) Illustrate fan delta and braid delta with a suitable examples. [5]
- Q5)** a) Explain in detail the wave-dominated coasts with suitable examples. [7]
b) Discuss on tides in bays and estuaries. [5]
- Q6)** a) Explain in detail international case studies on coastal hazard management. [7]
b) Discuss on salt intrusion and subsidence of coastal aquifers. [5]
- Q7)** Write short notes on any two of the following: [12]
a) Coastal sand dune.
b) Wave breakers
c) Corals and coral reefs.



Total No. of Questions : 7]

SEAT No. :

PD-3367

[Total No. of Pages : 2

[6481]-23
M.A./M.Sc. (Part - I)
GEOGRAPHY
GGUT 123 : Synoptic Climatology
(2019 Pattern) (Semester - II) (4 Credits)

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) Question 2 to 7 carry equal marks

Q1) Solve any Five of the following :

[10]

- a) Define synoptic climatology.
- b) Define air mass.
- c) What is a tornado?
- d) What is a heat wave?
- e) Mention type of fronts.
- f) Write any two methods of weather forecasting.

Q2) a) Explain the nature and scope of synoptic climatology in detail.

[7]

b) Describe the analytical approach of synoptic climatology.

[5]

Q3) a) Illustrate the formation of easterly waves.

[7]

b) Describe the approaches of synoptic climatology.

[5]

Q4) a) Elaborate air masses of Asia.

[7]

b) Write the various types of fogs.

[5]

P.T.O.

- Q5)** a) Classify the clouds and state with the suitable diagram. [7]
b) Describe the formation of frontogenesis. [5]
- Q6)** a) Explain the role of satellites in weather forecasting. [7]
b) Application of synoptic climatology in agriculture. [5]
- Q7) Write short notes any Two of the following.** [12]
a) Synoptic charts.
b) Wave cyclones.
c) Application of synoptic climatology.



Total No. of Questions : 7]

SEAT No. :

PD-3368

[Total No. of Pages : 2

[6481]-24
M.A./M.Sc.-(Part-I)
GEOGRAPHY
GGUT-124: Agricultural Geography
(2019 Pattern) (Semester - II) (CBCS)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidate:

- 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 a dry drought?
- b) Define Horticulture.
- c) Enlist the types of agriculture.
- d) What is regional approach?
- e) Mention geographical characteristics of cotton region in India.
- f) Define Mixed Farming.

Q2) a) Write in brief about Bhatia's method of agricultural efficiency.

[7]

b) Explain the scope of agricultural geography.

[5]

P.T.O.

- Q3)** a) Describe the technological factors determinants the agricultural patterns.[7]
b) Explain crop rotation method. [5]
- Q4)** a) Distinguish between intensive subsistence farming and plantation agriculture. [7]
b) Discuss the social factors influencing agriculture. [5]
- Q5)** a) Explain the role of agro based industry in regional development. [7]
b) Discuss the agricultural problems and prospects of with reference to India. [5]
- Q6)** a) Describe Green Revolution in India. [7]
b) Write a note on commercial grain farming [5]
- Q7)** Write a short note on any two of the following: [12]
a) Shifting cultivation
b) Organic farming
c) Modern technique in Indian agriculture.



Total No. of Questions : 7]

SEAT No. :

PD-3369

[Total No. of Pages : 2

[6481]-25
M.A./M.Sc.
GEOGRAPHY
GGUT-125: Population Geography
(2019 Pattern) (Semester - II) (Credit System)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidate:

- 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) Define Fertility
- b) Define Census.
- c) What is population density?
- d) Define morbidity
- e) What is population distribution?
- f) What is internal migration?

Q2) a) Discuss the demographic composition.

[7]

- b) Discuss preventive checks of Malthusian theory of population growth.

[5]

P.T.O.

- Q3)** a) Explain the Lee's theory of migration. [7]
b) Discuss the mortality trends of India. [5]
- Q4)** a) Describe the population density of the world. [7]
b) Discuss the economic composition. [5]
- Q5)** a) Explain the push factors of migration [7]
b) Critically examine the Malthus theory. [5]
- Q6)** a) Discuss the factors affecting on fertility. [7]
b) Discuss the determinants of population growth [5]
- Q7)** Write short notes on any two of the following: [12]
a) Human Development Index
b) Population policy of India
c) Sources of population data



Total No. of Questions : 7]

SEAT No. :

PD-3370

[Total No. of Pages : 2

[6481]-26

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

GEOGRAPHY

GGUT - 126 : Fluvial Geomorphology

(2019 Pattern) (Semester - II)

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 (Around 20 words each): **[10]**

- a) What is a river basin?
- b) Law of allometric growth.
- c) How sediment is entrained?
- d) Explain throughflow.
- e) River discharge (Q).
- f) What is the necessity of the Manning's equation?

Q2) a) What are channel patterns? Describe the meandering channel pattern in detail with diagram. **[7]**

b) Steady and unsteady flows. **[5]**

Q3) a) What is fluvial erosion? Describe any four bedrock channel landforms with suitable diagrams. **[7]**

b) How suspended load is different from bedload? **[5]**

Q4) a) What is hydraulic geometry? How at-a-station hydraulic geometry is different from downstream hydraulic geometry? **[7]**

b) What is river cross section? **[5]**

P.T.O.

- Q5)** a) How Glock's model describes various phases of drainage network development? Show diagrammatically. [7]
b) What is the difference between bedrock and alluvial river channels? [5]
- Q6)** a) What is fluvial geomorphology and what is its scope? [7]
b) Give an account of two landforms of floodplain. [5]
- Q7)** Write short notes on any **Two** of the following: [12]
a) What are fluvial terraces?
b) What is flood hydrograph and what are its segments?
c) What is river metamorphism?



Total No. of Questions : 7]

SEAT No. :

PD-3371

[Total No. of Pages : 2

[6481]-27
M.A./M.Sc. (Part - I)
GEOGRAPHY
GGUT 127 : Monsoon Climatology
(2019 Pattern) (CBCS) (Semester - II)

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 is monsoon climatology?
- b) What is monsoon trough?
- c) What is the full form of NAO?
- d) Define heat low.
- e) Enlist the models of monsoon forecasting.
- f) What is El - Nion.

Q2) a) Describe South Asian monsoon. **[7]**

b) Explain the monsoon model on non-rotating Earth. **[5]**

Q3) a) Explain dates of on set and withdrawal of monsoon Rainfall. **[7]**

b) Write note on Easterly Jet. **[5]**

Q4) a) Discuss El-Nino Southern oscillation [ENSO] and inter annual variability of monsoon. **[7]**

b) Give an account of active & break period of monsoon. **[5]**

P.T.O.

- Q5)** a) Write information on Indian Ocean Dipole (IOD). [7]
b) Explain the scope of monsoon climatology. [5]
- Q6)** a) Discuss the significance of Tibetan High on origin of monsoon. [7]
b) Explain Aerological concept of origin of monsoon. [5]
- Q7) Write short notes on any Two of the following.** [12]
a) Driving mechanism of monsoon
b) Time scales in monsoon forecasting
c) MONEX



Total No. of Questions : 7]

SEAT No. :

PD-3372

[Total No. of Pages : 2

[6481]-28
M.A./M.Sc.
GEOGRAPHY
GGUT-128: Industrial Geography
(2019 Pattern) (Semester - II) (CBCS)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidate:

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

Q1) Solve any five questions of the following :

[10]

- a) Define the Industrial Geography.
- b) Mention any two social factors of Industrial location.
- c) What is footloose industry?
- d) Mention any two assumptions of Waber's model.
- e) Write any two problems of Indian sugar industry.
- f) Mention any two major IT hubs in India.

Q2) a) Explain the role of industries in development of India's economy. [7]

b) Describe economic and political factors of industrial location. [5]

P.T.O.

- Q3)** a) Describe the iron and steel industries. [7]
b) Describe the industrial regions in china. [5]
- Q4)** a) Explain the agro based industries in India. [7]
b) What is SEZ? Explain importance of SEZ in detail. [5]
- Q5)** a) Explain the Western European Industrial region. [7]
b) Describe the India's industrial policy. [5]
- Q6)** a) Explain the problems of IT industry in India [7]
b) What is MIDC? Explain the role of MIDC in economic development of maharashtra. [5]
- Q7)** a) What is mean of FDS? Explain it role of development in India's industries [7]
b) Describe the current scenario of industry sector in India. [5]



Total No. of Questions : 7]

SEAT No. :

PD-3373

[Total No. of Pages : 2

[6481]-29
M.A./M.Sc.(Part-I)
GEOGRAPHY
GGUT-129: Geography of Rural Settlements
(2019 Pattern) (Semester - II) (4 Credits)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidate:

- 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) Define rural settlement geography.
- b) What is a site of settlement?
- c) Define range of goods.
- d) What do you mean by the morphogenesis of rural settlements?
- e) Define seasonal migration.
- f) What is the settlement pattern?

Q2) a) Describe the evolution of settlement.

[7]

b) Discuss the methods of the measuring degree of dispersion.

[5]

P.T.O.

- Q3)** a) Discuss the Von thunen theory in detail [7]
b) Describe the functional analysis of service in rural areas. [5]
- Q4)** a) Discuss the social-cultural morphogenesis of rural settlements. [7]
b) Explain the causes of migration in rural areas [5]
- Q5)** a) Discuss the factors affecting rural house types. [7]
b) Describe the building material used for rural settlements [5]
- Q6)** a) Describe the rural settlement patterns in Maharashtra. [7]
b) Discuss the geographical aspects of settlements reflected in place names. [5]
- Q7)** Write short notes any two of the following: [12]
a) Factors affecting nucleation
b) Intensity of land use
c) Functional analysis of service in rural areas



Total No. of Questions : 5]

SEAT No. :

PD-3374

[Total No. of Pages : 2

[6481]-30
M.A./M.Sc. - I
GEOGRAPHY
GGDT-130: Geography of Tourism
(2019 Pattern) (Semester - II) (2 Credits) (CBCS)

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) *Questions 2 to 5 carry equal marks.*

Q1) Solve any five of the following :

[5]

- a) Define Tourism.
- b) Define term agro-tourism.
- c) Define 'House boats'.
- d) State any two names of dams in India.
- e) State any two names of waterfalls in India.
- f) Define 'International tourist'.

Q2) a) Describe the classification of tourism on the basis of nationality.

[6]

b) Explain the difference between 'Hotels' and 'Motels'.

[4]

P.T.O.

- Q3)** a) Explain the importance of accommodation in tourism. [6]
b) Explain the religious factors of tourism. [4]
- Q4)** a) Describe the Ajanta caves. [6]
b) Explain the role of private accommodations in tourism. [4]
- Q5)** Write short notes on any two of the following: [10]
a) Eco-tourism
b) Heritage tourism
c) Beaches: Kalangut (Goa)



Total No. of Questions : 5]

SEAT No. :

PD-3375

[Total No. of Pages : 2

[6481]-31
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) Q. 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) What do you mean by disaster?
- b) Define Volcano.
- c) What is fire?
- d) What is food poisoning.
- e) Define landslide.
- f) What is accidents?

Q2) a) Explain the use of GIS in disaster management. **[6]**

b) Discuss the difference between vulnerability and risk. **[4]**

Q3) a) Discuss the role of police forces in disaster management. **[6]**

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

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

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

P.T.O.

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

[10]

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



Total No. of Questions : 7]

SEAT No. :

PD-3376

[Total No. of Pages : 2

[6481]-41

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

GEOGRAPHY

GGUT 235 : Geoinformatics - II

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

Q1) Solve any Five of the following :

[10]

- a) Define Remote Sensing.
- b) What is meant by Active sensors?
- c) List the remote sensing platforms.
- d) Name any two IRS series satellites.
- e) Give any two examples of optical mechanical scanner.
- f) Define spatial resolution.

Q2) a) Discuss the development of remote sensing in India.

[7]

b) Describe electromagnetic spectrum with the suitable diagram.

[5]

Q3) a) Give the detailed specifications of any two earth resource satellites. **[7]**

b) Explain the Geo-stationary satellites.

[5]

Q4) a) Discuss the difference between LISS & PAN image.

[7]

b) Explain the spectral resolution.

[5]

P.T.O.

- Q5)** a) Describe the Geometry of Aerial Photograph. [7]
b) Explain elements of image interpretation. [5]
- Q6)** a) Explain the types of aerial photographs based on scale. [7]
b) Describe characteristics of Aerial Photography. [5]
- Q7) Write short notes (Any Two) :** [12]
a) IKONOS Satellite
b) Blackbody radiation
c) Principal axis



Total No. of Questions : 7]

SEAT No. :

PD-3377

[Total No. of Pages : 2

[6481]-42
M.A./M.Sc.
GEOGRAPHY
GGUT-236: Geographical Thoughts
(2019 Pattern) (Semester - III) (Credit System) (4 Credits)

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) Write about the expedition of captain cook.
- b) Write any two names of Roman schools of thoughts.
- c) What do you mean by scenic evaluation?
- d) Enlist the names of any two book by strabo.
- e) Write about visit of Vasco da gama in different countries.
- f) Enlist the places of visit by Columbus.

Q2) a) Describe brief account of Arab school.

[7]

b) Explain the role of Immanuel kant in Geographical thought.

[5]

P.T.O.

- Q3)** a) Explain the paradigms in geography. [7]
b) Describe the field study process in Geography. [5]
- Q4)** a) Discuss the role of Indian school in the development of Geography. [7]
b) Explain the statistical techniques in Geography. [5]
- Q5)** a) Describe any two approaches in Geography. [7]
b) Explain the need and significance of environmental management. [5]
- Q6)** a) Need of urban planning in Geography. [7]
b) Describe any two models in Geographical studies. [5]
- Q7)** Write short notes on any two of the following: [12]
a) Determinism versus possibilism
b) Remote Sensing
c) Application in land use planning



Total No. of Questions : 7]

SEAT No. :

PD-3378

[Total No. of Pages : 2

[6481]-43

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

GEOGRAPHY

GGUT-237: Tropical Geomorphology (Theory)

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

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) Types of minerals.
- b) What is laterite?
- c) Give the types of duricrusts.
- d) What is mass movements?
- e) Define planation surfaces.
- f) Describe stream erosion in the tropics.

Q2) a) Describe deep weathering profile.

[7]

b) Explain peculiarities of tropical climate.

[5]

P.T.O.

- Q3)** a) Give an account of tropical coast. [7]
b) Discuss how temperature and rainfall affect the tropical region. [5]
- Q4)** a) Differentiate duricrusted and non duricrusted profile. [7]
b) What are particular relief characteristics found in the tropics. [5]
- Q5)** a) Explain slope wash processes in details. [7]
b) How tectonic and climatic changes are responsible in the development of tropical landforms? [5]
- Q6)** a) Explain the concept of double surface of planation. [7]
b) Describe landform development in the tropics. [5]
- Q7)** Write short notes on any two of the following: [12]
a) Tropical soils.
b) Morphogenetic regions.
c) Inselbergs.



Total No. of Questions : 7]

SEAT No. :

PD-3379

[Total No. of Pages : 2

[6481]-44

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

GEOGRAPHY

GGUT-238 : Applied Climatology

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

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

Q1) Write the answers of the following questions in about 20 words (Any 5) :
[10]

- a) What is climate impact assessment?
- b) Name the instruments used to measure atmospheric pressure.
- c) State the difference between air and wind.
- d) State any two problems caused by urban air pollution.
- e) What is heating degree day?
- f) Give any two effects of construction operations on air quality.

Q2) a) Describe the nature of applied climatology. [7]

b) Write about empirical methods used to Estimate Evapotranspiration. [5]

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

b) Explain the effect of climate on human health. [5]

P.T.O.

- Q4)** a) Explain the characteristics of urban heat island. [7]
b) What is the relationship between climate and industrial activities? [5]
- Q5)** a) Explain the relationship between soil management and climate. [7]
b) Explain the meaning and type of cooling towers. [5]
- Q6)** a) Describe the effect of climate on air transport. [7]
b) Describe canopy transpiration and crop stress. [5]
- Q7) Write short notes on any two of the following :** [12]
a) Scope of applied climatology.
b) Climate and clothing.
c) Application of remote sensing in crop monitoring



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PD3380

[6481]-45

M.A./M.Sc. - II

GEOGRAPHY

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

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 Q No.7.*
- 3) Questions No.2 to Q No.7 carry equal marks.*

Q1) Answer any five of the following.

[10]

- a) Write any two objectives of rural development.
- b) What is rural development.
- c) Enlist levels of planning in rural development.
- d) Define the term rural development.
- e) What is 'NGO'?
- f) Define the term 'GIS'.

Q2) a) Explain economic factors affecting on rural development.

[7]

b) Discuss the role of rural electrification in the development.

[5]

Q3) a) Describe grassroot planning in rural development.

[7]

b) Role of government policies in rural development.

[5]

Q4) a) Describe watershed management and rural development.

[7]

b) Write a note on management of tribal village.

[5]

P.T.O.

- Q5)** a) Explain the nature and scope of rural development. [7]
b) Write notes on Green Revolution and rural development. [5]
- Q6)** a) Explain major issues in the rural development. [7]
b) Describe the concept of rural development. [5]
- Q7)** Write short notes on any two of the following. [12]
a) E-Governance
b) E-Agriculture
c) Panchayat raj.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PD3381

[6481]-46

M.A./M.Sc. - II

GEOGRAPHY

GGUT-240 : Urban Geography

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

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 Q No.7.*
- 3) *Question No.2 to Q No.7 carry equal marks.*

Q1) Answer any five of the following.

[10]

- a) What is threshold population?
- b) Give any two objectives of urban studies.
- c) Concept of city region.
- d) Define-Urbanization.
- e) What is urban planning?
- f) Give any two characteristics of CBD.

Q2) a) Explain the nature of urban geography.

[7]

b) State the urban transport problems.

[5]

Q3) a) Explain the concentric theory of morphological pattern of cities.

[7]

b) What is urbanization curve? Explain in detail.

[5]

Q4) a) 'Indian cities do not show positive relationship as postulated by Zipf'. Elaborate it.

[7]

b) Give functional classification of town.

[5]

P.T.O.

- Q5)** a) Explain the Christaller's central place theory. [7]
b) What are the civic amenities problems in cities. [5]
- Q6)** a) Describe the growth of urban population with trend and direction of urbanization in India. [7]
b) How can GIS be used in urban planning? [5]
- Q7)** Write short notes on any two of the following. [12]
a) City regions in India
b) Hierarchical order of CBD
c) Quality of life in towns



Total No. of Questions : 5]

SEAT No. :

PD-3382

[Total No. of Pages : 2

[6481]-47

M.A./M.Sc.

GEOGRAPHY

GGUT-242 : Hydrology

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

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates :

- 1) Q.1 is compulsory.
- 2) Solve any three Que. from Q.No. 2 to Q.No. 5.
- 3) Que No. 2 to 5 carry equal marks.

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

- a) Define 'Water cycle'.
- b) Give the units of measurement for stream flow.
- c) What do you mean by gross precipitation?
- d) What is mean by depression storage?
- e) Define 'Transpiration'.
- f) Give the units of measurement for infiltration.

Q2) a) Explain the hydrologic cycle. [6]

b) Give an account of sources of hydrologic data. [4]

Q3) a) Briefly describe the global distribution of precipitation. [6]

b) Explain precipitation and evaporation as a unit of hydrologic measurement. [4]

Q4) a) Explain the factors affecting on depression storage. [6]

b) Describe the concept of evapotranspiration [4]

P.T.O.

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

[10]

- a) Methods of evaporation control
- b) Application of Hydrology
- c) Types of precipitation



Total No. of Questions : 5]

SEAT No. :

PD-3383

[Total No. of Pages : 2

[6481]-48
M.A./M.Sc.
GEOGRAPHY
GGUT-243 : Watershed Management
(2019 Pattern) (Semester - III) (CBCS)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates :

- 1) *Que. No. 1 is compulsory.*
- 2) *Solve any three Que. from Q.No. 2 to Q.No. 5.*
- 3) *Que No. 2 to 5 carry equal marks.*

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

- a) What is watershed?
- b) Define 'Ridge Line'.
- c) What do you mean by interception?
- d) What is 'Check Dam'?
- e) Define 'Integrated watershed development plan.
- f) What is mean by 'contour banding'?

Q2) a) Discuss the problems in watershed management. **[6]**

- b) Describe how physiography and drainage determines in watershed management. **[4]**

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

- b) Explain the process of evaporation and evapotranspiration. **[4]**

Q4) a) Explain the importance of watershed management. **[6]**

- b) Describe the methods of soil conservation. **[4]**

P.T.O.

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

[10]

- a) Methods of water conservation
- b) Principle of watershed management
- c) Hydrological cycle



Total No. of Questions : 7]

SEAT No. :

PD-3384

[Total No. of Pages : 2

[6481]-51
M.A./M.Sc. - 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. No. 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) Name the group of islands lying in the Bay of Bengal.
- b) Write any two tributaries of Indus.
- c) What is ITCZ?
- d) What is soil degradation?
- e) In which state of India found the moist tropical forest?
- f) Write any two thermal power stations in India.
- g) Enlist the advantages of green revolution.

Q2) a) Describe the frontiers of India.

[7]

b) Write in brief about the peninsular plateau of India.

[5]

Q3) a) Explain in detail the Narmada river system.

[7]

b) Write summer season and associated weather conditions in india.

[5]

Q4) a) Discuss the remedial measures of soil conservation.

[7]

b) Write the distribution of Manganese in India.

[5]

P.T.O.

- Q5)** a) Explain the major forest types in India. [7]
b) Write the distribution of Cotton in India. [5]
- Q6)** a) Describe problems of industrial development in India [7]
b) Explain the distribution of population in India. [5]
- Q7) Write short notes any Two of the following.** [12]
a) Krishnariver
b) El-Nino
c) Distribution of petroleum in India
d) Cotton textile industry in India



Total No. of Questions : 7]

SEAT No. :

PD-3385

[Total No. of Pages : 2

[6481]-52
M.A./M.Sc.
GEOGRAPHY - II
GGUT-250: Oceanography
(2019 Pattern) (Semester - IV) (Credit -4)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidate:

- 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) Define oceanography
- b) Who proposed the hypothesis of seafloor spreading?
- c) What is a continental shelf?
- d) Define density of seawater.
- e) What is lithogenous deposit?
- f) Write any two natural disturbances causing pollution in the ocean?
- g) Enlist the major causes of ocean pollution

Q2) a) Describe the modern trends of oceanography.

[7]

b) Write a note on origin of Atlantic Ocean

[5]

P.T.O.

- Q3)** a) Explain the oceanic ridge and rise [7]
b) Describe the origin of sea salt [5]
- Q4)** a) Discuss the biogenous marine sediments [7]
b) Write in brief the available ocean resources [5]
- Q5)** a) Describe the continental drift in the context of origin of ocean basin [7]
b) Write about anthropogenic activities resulting in ocean pollution [5]
- Q6)** a) Explain the factors affecting on density of seawater [7]
b) Write characteristics of ocean pollutants [5]
- Q7)** Write short notes any two of the following: [12]
a) Foundation of modern oceanography
b) Radiolarian ooze
c) Coral reef
d) Liquefied ocean resources



Total No. of Questions : 7]

SEAT No. :

PD3386

[Total No. of Pages : 2

[6481]-53

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

GEOGRAPHY

**GGUT-251: Research Methodology
(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 Q.7 carry equal marks.*

Q1) Solve any Five of the following.

[10]

- a) What is applied research?
- b) Define research design
- c) What is the population in research?
- d) Define questionnaire
- e) What is a hypothesis in research?
- f) What is a dissertation?
- g) Write any two softwares for plagiarism detection.

Q2) a) Describe various steps in the research process.

[7]

b) Write in brief the purpose of the research design.

[5]

Q3) a) Explain in detail about research problem.

[7]

b) Write advantages of sampling.

[5]

Q4) a) Discuss the characteristics of an interview.

[7]

b) Write in brief about 't' test.

[5]

Q5) a) Explain the measures of central tendency.

[7]

b) Write the research ethics.

[5]

P.T.O.

- Q6)** a) Describe the structure of research report. [7]
b) Write in brief about simple random sampling. [5]

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

- a) Techniques involved in the identification of research problem
- b) Merits of questionnaire method
- c) Research Methodology
- d) Time series analysis



Total No. of Questions : 5]

SEAT No. :

PD3387

[Total No. of Pages : 1

[6481]-54

M.A./M.Sc. - II

GEOGRAPHY

**GGUT - 252 : Geography of Soils
(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 Q.No. 2 to Q. No. 5.
- 3) Questions 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 soil.
- b) What is soil formation?
- c) Write any two physical characteristics of soil.
- d) What is land capability?
- e) What is soil pollution?
- f) Define soil conservation.

Q2) a) Describe the scope of soil geography. [6]

b) Write climate as a factor of soil formation. [4]

Q3) a) Explain minerals and matter as a soil component. [6]

b) Characteristics of black soil. [4]

Q4) a) Write in details methods of soil conservation. [6]

b) Write on land suitability classification. [4]

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

- a) Acidification.
- b) Micronutrients.
- c) Chemical Characteristics of soil.



Total No. of Questions : 5]

SEAT No. :

PD3388

[Total No. of Pages : 1

[6481]-55

M.A./M.Sc. - II

GEOGRAPHY

**GGUT - 254 : Political Geography
(2019 Pattern) (Semester - IV) (60426)**

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) Question 1 is compulsory.
- 2) Attempt any three questions from Q.No. 2 to Q. No. 5.
- 3) Questions 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 political geography?
- b) Enlist the elements of state.
- c) What is nationalism?
- d) What is 'No Man Land'?
- e) Which states has Godavari water dispute?
- f) What is the name of the border line between India and Pakistan?

Q2) a) Describe scope of political geography. [6]

b) Explain territory as a element of state. [4]

Q3) a) Elaborate the concept of frontiers with suitable examples. [6]

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

Q4) a) Describe border dispute between India and China. [6]

b) Explain heartland theory of Mackinder. [4]

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

- a) Origin of state
- b) Modern Geopolitics
- c) Changing political map of India.



Total No. of Questions : 5]

SEAT No. :

PD3389

[Total No. of Pages : 1

[6481]-56

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 Q.No. 2 to Q. No. 5.
- 3) Questions 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 the term 'Region'.
- b) What is national capital region?
- c) What is Hierarchy of planning?
- d) Enlist the span of five years plan.
- e) What is regional disparity.
- f) Define 'river basin' area.

Q2) a) Write in detail the role of geography in regional planning. [6]

b) Describe the indicators of development. [4]

Q3) a) Explain the techno-Economic survey in regional planning. [6]

b) Describe the characteristics of regional policies in India. [4]

Q4) a) Explain the concept of metropolitan region. [6]

b) Write in detail the planning in tribal areas. [4]

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

- a) Measurement of Regional Development.
- b) Levels of planning.
- c) Concept of Planning region.



Total No. of Questions : 7]

SEAT No. :

PD-3390

[Total No. of Pages : 2

[6481]-57
M.A./M.Sc.-II
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) *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 Geological time scale?
- b) Enlist the rivers of Europe continent.
- c) State any two countries with highest population of Asia.
- d) Name any two major crops of Africa.
- e) What is global warming?
- f) Define Terrorism.

Q2) a) Give an account on origin of the earth and solar system.

[7]

b) Explain mineral resources of South America.

[5]

P.T.O.

- Q3)** a) Describe climatic characteristics of Antarctica. [7]
b) Write note on border dispute between India and Pakistan. [5]
- Q4)** a) Discuss the natural vegetation of Africa. [7]
b) Write note on food security. [5]
- Q5)** a) Explain global impact of COVID - 19 [7]
b) Describe tourism as a key of development. [5]
- Q6)** a) Explain physical division of Asia. [7]
b) Describe role of WTO. [5]
- Q7)** Write short notes any two of the following : [12]
a) Merits of Globalization.
b) Poverty in the world
c) Wildlife of Antarctica

