

Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4614

[6515]-1

First Year M.A./M.Sc.

GEOGRAPHY

**GEO-501-MJ : Principles of Geomorphology
(2023 Credit Pattern) (Semester - I) (Credits - 2)**

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

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

Q1) Solve any five of the following.

[5]

- a) Define geomorphology.
- b) Write any four branches of geomorphology.
- c) What is lithosphere?
- d) What is Pangaea?
- e) What is endogenic force?
- f) Define mass movement.
- g) Define slope.

Q2) a) Write a note on nature of geomorphology.

[6]

b) Describe Phanerozoic ion.

[4]

Q3) a) Explain interior of the Earth based on physical properties.

[6]

b) Give an introduction of the Continental Drift Theory.

[4]

P.T.O.

Q4) a) Describe physical weathering. [6]

b) Write a note on igneous rock. [4]

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

a) Applied geomorphology.

b) Basic elements of slopes.

c) Geomorphological hazard.

d) Geotourism.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4615

[6515]-2

M.A/M.Sc. - I

GEOGRAPHY

**GEO - 502 MJ:Principles of Climatology
(2023 Credit Pattern) (Semester - I) (2 Credits)**

Time : 2Hours]

[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) Answer any five of the following.

[5]

- a) Define Climate.
- b) State any two causes of ozone layer depletion.
- c) What is lapse rate?
- d) What is electromagnetic spectrum?
- e) Define greenhouse effect.
- f) What are the gradient winds?
- g) Define atmospheric moisture.

Q2) a) Describe structure of the atmosphere.

[6]

b) Explain the heat budget of the Earth.

[4]

Q3) a) Discuss the factors affecting horizontal distribution of atmospheric pressure.

[6]

b) Describe the types of inversion of temperature.

[4]

P.T.O.

Q4) a) Differentiate between meteorology and climatology. **[6]**

b) Explain solar and terrestrial radiation. **[4]**

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

a) Effects of ozone layer depletion.

b) Temperature measurements and control.

c) Development of climatology.

d) General circulation of the atmosphere.



Total No. of Questions :5]

SEAT No. :

[Total No. of Pages : 2

PE4616

[6515]-3

M.A. / M.Sc.-I

GEOGRAPHY

GEO 503 MJ: Principles of Economic Geography

(2023 Credit Pattern) (Semester-I) (2 credits)

Time :2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *Q.1 is Compulsory.*
- 2) *Attempt any three questions from Q.No.2 to Q.No.5*
- 3) *Q.2 to Q.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 Economic Geography
- b) Give any two examples of tertiary economic activities.
- c) What is trading bloc?
- d) What is economic landscape?
- e) What is main objective of Weber's theory of industrial location.
- f) Who was Von Thunen?
- g) What are economic activities?

Q2) a) Explain recent trends of economic geography.

[6]

b) Explain the 'Take-off-stage' explained by Rostow in his model.

[4]

Q3) a) Describe the major types of economic systems.

[6]

b) Discuss the issues of economic geography.

[4]

P.T.O.

- Q4)** a) Critically evaluate the weber's theory of industrial location. [6]
b) Explain the concept of region with example. [4]

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

- a) Secondary economic activities.
- b) Economic Geography.
- c) Concept of trading bloc.
- d) Concept of agglomeration.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4617

[6515]-4

M.A./M.Sc. - I

GEOGRAPHY

**GEO 504 MJ:Principles of Population and Settlement Geography
(2023 Credit Pattern) (Semester - I)**

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) *Question 2 to 5 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

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

- a) Write any two approaches to study the Settlement Geography.
- b) Define Migration.
- c) What is population density?
- d) What is dispersed settlement?
- e) What is population geography?
- f) What is site of settlement?
- g) Write any two factors influencing density of population.

Q2) a) Describe the nature of population Geography. [6]

b) Explain factors influencing on growth of settlement. [4]

Q3) a) Explain population distribution of India. [6]

b) Describe patterns of settlement. [4]

P.T.O.

Q4) a) Discuss the factors influencing on the distribution of population. **[6]**

b) Explain Arithmetic density of population. **[4]**

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

a) Urban settlement.

b) Fertility.

c) Types of settlement.

d) Population growth.



Total No. of Questions : 5]

SEAT No. :

PE-4618

[Total No. of Pages : 2

[6515]-5
M.A./M.Sc. - I
GEOGRAPHY
GEO 505 MJ : Introduction to Statistical Methods in
Geography
(2023 Pattern) (Semester - I) (Credits - 2)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *Q.1 is compulsory.*
- 2) *Solve any three questions from Q.2 to Q.5.*
- 3) *Q.2 to Q.5 carry equal marks.*
- 4) *Use of calculator and statistical tables is allowed.*

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

- a) What is frequency?
- b) Ratio scale of measurement.
- c) What is mode?
- d) Which are measures of dispersion?
- e) What is range of data set?
- f) What do you mean by zero skewness?
- g) What is dependent variable?

Q2) a) Calculate median of the following grouped data. **[6]**

Class	0-4	5-9	10-14	15-19	20-24	25-29
F	2	7	12	17	22	27

Class = Distance in km; F = Number of shops

- b) Compute mode of the data provided in table of question number Q2a. **[4]**

P.T.O.

- Q3)** a) Derive variance of the data given in table of question number Q2 a. [6]
b) Calculate standard deviation of the data provided in table of question number Q2a. [4]

- Q4)** a) Calculate the correlation coefficient (r) to show the relationship between the percentage of people who work in industry or services (X) and life expectancy (Y) in some of the selected countries in the world. [6]

X	25	40	21	50	76	85	90	93
Y	43	48	55	58	67	73	75	77

- b) Plot the data given in Q4 a, draw an eye fit line and interpret. [4]

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

- Frequency distribution and graphical representation.
- Merits and demerits of median.
- Types of skewness.
- Simple regression.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4619

[6515]-6

M.A./M.Sc. - I

GEOGRAPHY

**GEO 510 MJ:Introduction to Geographical Information System
(2023 Credit Pattern) (Semester - I) (Group-A) (2 Credits)**

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) *Question 2 to 5 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

Q1) Answer any five of the following.

[5]

- a) Define the term GIS.
- b) What is DTM?
- c) What is raster data in GIS?
- d) What is the vector data model in GIS?
- e) What is the importance of topology in spatial data structuring?
- f) What is attribute data in GIS?
- g) What are the advantages of using GIS for decision-making?

Q2) a) Describe historical development in GIS.

[6]

b) Write the spatial data sources.

[4]

Q3) a) Explain in non-spatial data models.

[6]

b) Justify digitization.

[4]

P.T.O.

Q4) a) Discuss the space and time. **[6]**

b) How is GIS used in urban planning? **[4]**

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

a) Overlay analysis.

b) GIS softwares.

c) Topology building.

d) Vector-point.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4620

[6515]-7

M.A./M.Sc. - I

GEOGRAPHY

GEO 512 MJ: Tourism Management

(2023 Credit Pattern) (Semester - I) (2 Credits)

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) *Question 2 to 5 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

Q1) Answer any five of the following.

[5]

- a) Define Tourism Management.
- b) Mention any two important stages in destination lifecycle.
- c) Mention any two objectives of tourism promotion.
- d) Mention any two data collection method in tourism.
- e) What are the secondary sources of data?
- f) What is branding of tourist destination?
- g) What is online guest review?

Q2) a) Describe the importance of tourism management.

[6]

b) Explain the importance of research in tourism.

[4]

Q3) a) Explain different tour packages in tourism.

[6]

b) Describe the types of tourist agencies.

[4]

P.T.O.

Q4) a) Describe the importance of social media in tourism. **[6]**

b) Discuss how review and feedback are important in tourism management. **[4]**

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

a) Tourism planning.

b) Digital marketing.

c) Destination life cycle.

d) Principles of tourism marketing.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4621

[6515]-8

M.A./M.Sc. - I

GEOGRAPHY

GEO 514 MJ:Geography of Soil

(2023 Credit Pattern) (Semester - I) (2 Credits) (Group - C)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

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

Q1) Answer any five of the following.

[5]

- a) Define soil geography.
- b) Write normal range of pH in soil.
- c) State any four soil types of India.
- d) Write any two methods of soil conservation.
- e) Write any two examples of cation.
- f) What is redox potential in soil?
- g) Write any four causes of soil degradation.

Q2) a) Explain the scope and importance of Soil Geography.

[6]

b) Describe physical properties of soil.

[4]

Q3) a) Describe any three chemical properties of soil.

[6]

b) Explain the soil types in India.

[4]

P.T.O.

Q4) a) Explain the land suitability and capability. **[6]**

b) Describe the four causes of soil pollution. **[4]**

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

a) Soil as natural resource.

b) Soil conservation.

c) Soil formation.

d) Methods of soil conservation.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PE4622

[6515]-9

M.A./M.Sc. - I

GEOGRAPHY

**GEO -531-RM:Research Methodology
(2023 Credit Pattern) (Semester - I) (4 Credits)**

Time : 3Hours]

[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 to map stencil is allowed.

Q1) Answer any five of the following.

[10]

- a) Define research.
- b) What is research objective?
- c) Define reference.
- d) Write any two sources of primary data.
- e) What is quantitative data?
- f) What is research question?
- g) What is the significance of research design?

Q2) a) Describe inductive and deductive reasoning approach.

[7]

b) State the goal of the literature review.

[5]

Q3) a) Explain in details general system model.

[7]

b) Justify the research gap.

[5]

P.T.O.

- Q4)** a) Discuss the methods of data acquisition. [7]
b) How are different data types and sources used in research? [5]
- Q5)** a) Explain the citation and equations useful in research. [7]
b) How are figure and equations useful in research paper writing? [5]
- Q6)** a) How is a research proposal prepared? [7]
b) Explain publication ethics. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Types of hypothesis.
b) Impact factor.
c) Sampling.
d) Types of research.



Total No. of Questions : 7]

SEAT No. :

PE4623

[Total No. of Pages : 2

[6515]-21

M.A./M.Sc. - I

GEOGRAPHY

**GEO 551(A) MJ : Fluvial Geomorphology
(2023 Credit Pattern) (Semester - II)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Q1 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 Drainage Basin.
- b) What is the process of channel initiation?
- c) Name any method of velocity measurement.
- d) What is graded channel?
- e) What is meant by hydraulic geometry?
- f) What is impaction?
- g) Define sediment yield.

Q2) a) What are the different channel patterns? Describe meandering channel pattern in detail.

[7]

b) Differentiate between laminar flow and turbulent flow.

[5]

Q3) a) Explain erosional landforms of bedrock channels with suitable diagrams.

[7]

b) What are the modes of sediment transport?

[5]

P.T.O.

- Q4)** a) Discuss at - a - station hydraulic geometry. [7]
b) Illustrate any two landforms associated with fluvial deposition. [5]
- Q5)** a) Explain the phase of drainage network development of Glock's Model.[7]
b) Write about runoff generation and its types. [5]
- Q6)** a) Define fluvial geomorphology and elaborate its scope. [7]
b) Briefly explain any two landforms associated with flood plains. [5]
- Q7)** Write short note on any two of the following : [12]
a) Hydrograph
b) Step and Pool sequences
c) Delta
d) Sediment Yield

x x x

Total No. of Questions : 7]

SEAT No. :

PE4624

[Total No. of Pages : 2

[6515]-22

M.A./M.Sc. - I

GEOGRAPHY

**GEO 551 MJ(B) : Synoptic Climatology
(2023 Credit Pattern) (4 Credits) (Semester - II)**

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 of map stencil is allowed.

Q1) Solve any Five of the following :

[10]

- a) Define the synoptic climatology.
- b) What is lapse rate?
- c) Define Fronts in air masses.
- d) Define tropical cyclone.
- e) What is air masses?
- f) What is Rossby waves?
- g) Define weather forecasting.

Q2) a) Describe the nature of synoptic climatology.

[7]

b) Discuss classification and modifications of air masses.

[5]

Q3) a) Elaborate changes in atmospheric stability.

[7]

b) Explain frontal weather in detail.

[5]

P.T.O.

- Q4)** a) Explain cold and warm-core anticyclones. [7]
b) Discuss weather observations and analysis. [5]
- Q5)** a) Explain scope of synoptic climatology. [7]
b) What do you mean by dry and wet adiabatic lapse rate. [5]
- Q6)** a) Discuss synoptic and dynamic conditions during summer and winter. [7]
b) Describe source regions of air masses. [5]
- Q7)** Write short note on any two of the following : [12]
a) Types of atmospheric stability.
b) Mid latitude cyclones.
c) Scales of atmospheric motion.
d) Types and methods of weather forecasting.

x x x

Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PE4625

[6515]-23

M.A./M.Sc. - I

GEOGRAPHY

**GEO-551 (C) -MJ : Agriculture Geography
(2023 Credit 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) *Q.2 to Q.7 carry equal marks.*

Q1) Solve any five of the following :

[10]

- a) Define agriculture geography.
- b) What is regional approach?
- c) Write any four characteristics of shifting cultivation.
- d) Define community farming.
- e) Give any four socio-economic problems of Indian agriculture.
- f) Enlist the types of agriculture.
- g) Mention any four agricultural regions in India.

Q2) a) Explain the interdisciplinary nature of agriculture geography.

[7]

b) What is Kendall's method of agricultural efficiency?

[5]

Q3) a) Discuss the impact of economic factors on agriculture.

[7]

b) Discuss the subsistent farming.

[5]

P.T.O.

- Q4)** a) Explain the difference between mixed farming and horticultural farming. [7]
b) Describe the concept and elements of agro-tourism. [5]
- Q5)** a) Describe the problems of Indian agriculture. [7]
b) Write in details the developments of biotechnology in Indian agriculture. [5]
- Q6)** a) Discuss the importance of agriculture in the Indian Economy. [7]
b) Write the salient features of India's National Agricultural Policy - 2000. [5]
- Q7)** Write short notes (Any two) : [12]
a) Recent trends in Agriculture Geography.
b) Organic farming.
c) Wheat and sugarcane region in India.
d) Significance of agriculture in the world.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PE4626

[6515]-24

M.A./M.Sc. - I

GEOGRAPHY

**GEO 551 MJ (D) : Population Geography
(2023 Credit 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) *Questions 2 to 7 carry equal marks.*
- 4) *Use to map stencil is allowed.*

Q1) Solve any five of the following.

[10]

- a) Define population geography.
- b) When was the first census of India published?
- c) What is mean by sex ratio?
- d) Define fertility.
- e) Who introduced Theory of population growth?
- f) What is mean by population policy?
- g) Name two indicators of human development index.

Q2) a) Describe the significance of population geography.

[7]

b) Discuss the concept of over population.

[5]

Q3) a) Explain the major sources of population data in India.

[7]

b) Discuss the social composition of India.

[5]

P.T.O.

- Q4)** a) Explain the factors affecting on mortality. [7]
b) Discuss the temporal variations in fertility in India. [5]
- Q5)** a) Critically examine the Malthusian Theory of population growth. [7]
b) Describe the socio-cultural issues related to population policy of India.[5]
- Q6)** a) Explain the opportunities of demographic dividend in India. [7]
b) Discuss Human Development Index of India. [5]
- Q7)** Write short notes any two of the following: [12]
a) Census of India
b) Sex ratio
c) Literacy rate in India
d) Theory of fertility



Total No. of Questions : 5]

SEAT No. :

PE-4627

[Total No. of Pages : 2

[6515]-25
M.A./M.Sc.
GEOGRAPHY
GEO 553 MJ: Geographical Thought
(2023 Credit Pattern) (Semester - II)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates :

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

Q1) Solve any five of the following :

[5]

- a) Give any two names of Roman Geographers.
- b) What is Dualism?
- c) Who is the father of modern geomorphology?
- d) Write any two names of modern Indian Geographers.
- e) Who is the father of Human Geography?
- f) Write the period of 'Dark Age'.
- g) Name any two French Geographers.

P.T.O.

- Q2)** a) Discuss the geographical thought of Greek Geographers. [6]
b) Describe the Geographical thought of Arab Geographers. [4]
- Q3)** a) Explain the geographical thought of American Geographers. [6]
b) Explain the concept of possibilism. [4]
- Q4)** a) Write contribution of Friedrich Ratzel in the Human Geography. [6]
b) Describe the geographical thought of Russian Geographers. [4]
- Q5)** Write short notes any two of the following. [10]
a) Ancient Indian Geography
b) Physical Versus Human Geography
c) Halford J. Mackinder (British)
d) Characteristics of 'Dark Age'?



Total No. of Questions :7]

SEAT No. :

[Total No. of Pages : 2

PE4628

[6515]-26

M.A. / M.Sc.-I

GEOGRAPHY

**GEO 554 MJ (A) MJ : Coastal Geomorphology
(2023 Credit 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 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:

[10]

- a) What is coastal geomorphology?
- b) Define wave length.
- c) What is transgression of sea level?
- d) What is coastline erosion?
- e) What is arches?
- f) Write any two methods of coastal conservation .
- g) What is wetland?

Q2) a) Describe in detail spatial and temporal scales in coastal geomorphology.[7]

b) Explain in detail various strategies adopted for storm hazard management
[5]

Q3) a) Explain in detail the process of shoaling wave. **[7]**

b) Discuss the characteristics of wave dominated coast. **[5]**

P.T.O.

- Q4)** a) Discuss the properties of coastal sediments. [7]
b) Write a notes on method kharlands reclamation [5]
- Q5)** a) Explain the causes of sea level changes with reference to regression [7]
b) Explain dynamical theory of tides. [5]
- Q6)** a) Explain the formation and morphology of barrier islands and coastal sand dunes [7]
b) Discuss the sediment transportation system in detail. [5]
- Q7)** Write short notes any two of the following: [12]
a) Relative and eustatic sea level change.
b) Grain size characteristics.
c) Impact and risk of coastal hazard.
d) Salt water intrusion.



Total No. of Questions : 7]

SEAT No. :

PE4629

[Total No. of Pages : 2

[6515]-27

M.A./M.Sc. - I

GEOGRAPHY

**GEO 554(B) MJ : Agro - Meteorology
(2023 Credit Pattern) (Semester - II)**

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 of map stencil is allowed.

Q1) Solve any Five of the following :

[10]

- a) What is Solar radiation?
- b) Define evaporation.
- c) Define drought.
- d) What is biological hazard?
- e) Write any two applications of GIS in agro-meteorology.
- f) What is weather forecast?
- g) What is climate variability?

Q2) a) Describe the nature of agro-meteorology.

[7]

b) Explain impact of sudden change in temperature on plant.

[5]

Q3) a) Describe use of water in irrigation.

[7]

b) Explain meteorological indicators of drought.

[5]

P.T.O.

- Q4)** a) Explain the role of weather in biological hazards on crops. [7]
b) Write in brief use of climate forecast system. [5]
- Q5)** a) Describe the application of remote sensing in agro-meteorology. [7]
b) Write applications of crop models. [5]
- Q6)** a) Describe future scenarios of climate change. [7]
b) Explain perspectives of agro-meteorology. [5]
- Q7)** Write short note on any two of the following : [12]
a) Scope of agro meteorology
b) Thermoperiodism
c) Evapotranspiration
d) Climate change and livestock

x x x

Total No. of Questions : 7]

SEAT No. :

PE4630

[Total No. of Pages : 2

[6515]-28

M.A./M.Sc. - I

GEOGRAPHY

**GEO 554 MJ (C) : Geography of Development
(2023 Credit Pattern) (Semester - II) (4 Credits)**

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 of map stencil is allowed.

Q1) Solve any Five of the following :

[10]

- a) Define the concept of economic growth.
- b) Define least developed countries.
- c) Mention any two factors that contribute to economic growth.
- d) Mention any two assumptions of Solow model.
- e) Mention any two features of sustainable development.
- f) Define social development.
- g) Mention any two characteristics of LDCs.

Q2) a) Describe the role of agriculture in economic development.

[7]

b) Explain the impact of Physiography on economic development.

[5]

Q3) a) Critically explain the Solow model of economic growth in detail.

[7]

b) Justify the use of per capita income as an indicator of economic development.

[5]

P.T.O.

- Q4)** a) Explain the role of world bank in economic development. [7]
b) Describe international capital flow in detail. [5]
- Q5)** a) How does globalization contribute to economic growth in developing countries? [7]
b) Explain the role of FDI in economic development of a country. [5]
- Q6)** a) Evaluate the importance of trade in economic development. [7]
b) Explain how environmental sustainability is associated with economic development. [5]
- Q7)** Write short note on any two of the following : [12]
a) Spread effect
b) Steady - state in Solow model
c) International trade
d) Industrialization and economic development.

x x x

Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PE4631

[6515]-29

M.A./M.Sc.-I

GEOGRAPHY

**GEO-554-MJ (D) : Geography of Rural Settlement
(2023 Pattern) (Semester - II) (Credit System)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Q.1 is compulsory.*
- 2) *Solve any five questions from Q.2 to Q.7.*
- 3) *Question 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 location of settlement?
- b) Define rural settlement.
- c) What is threshold?
- d) Which building materials used for rural houses?
- e) What do you mean by modern high rise house?
- f) Define the term 'Migration'.
- g) State any two causes of migration in rural areas.

Q2) a) Describe the factors affecting on the growth of rural settlements.

[7]

b) Discuss about the rural house types in Maharashtra.

[5]

Q3) a) Explain the historical aspects of settlement reflected in place name.

[7]

b) What are the problems of nucleation of settlements.

[5]

Q4) a) Discuss about the Pradhan Mantri Awaas Yojana (Gramin).

[7]

b) What are the problems of grassroot planning?

[5]

P.T.O.

- Q5)** a) Discuss about the demographic characteristics of rural communities.[7]
b) Explain the consequences of rural-urban migration. [5]
- Q6)** a) Discuss the factors affecting intensity of land use. [7]
b) Explain the problems of rural settlements in Maharashtra. [5]
- Q7)** Write short notes any two of the following. [12]
a) Centrality and hierarchy of rural service centers.
b) Building material used in rural areas.
c) Occupational structure of rural settlements.
d) Seasonal Migration.



Total No. of Questions : 5]

SEAT No. :

PE-4632

[Total No. of Pages : 2

[6515]-30

M.A./M.Sc. - I

GEOGRAPHY

GEO 560 MJ : Introduction to Remote Sensing

(2023 Credit Pattern) (Semester - II) (Credits - 2) (Group - A)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates :

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

Q1) Solve any Five of the following :

[5]

- a) What is spectral resolution?
- b) What is active remote sensing?
- c) Define aerial photography.
- d) What are advantages of aerial photography?
- e) What is ground based remote sensing platform?
- f) What are the challenges of remote sensing data?
- g) Write the meaning of temporal resolution.

Q2) a) Describe application of remote sensing data.

[6]

b) State the air based platforms.

[4]

P.T.O.

- Q3)** a) Explain in elements of aerial photography. [6]
b) Justify radiometric resolution. [4]
- Q4)** a) Discuss the history of remote sensing. [6]
b) How is remote sensing used in disaster management? [4]
- Q5)** Write short notes any two of the following : [10]
a) Metrological satellite.
b) Passive remote sensing
c) ISRO
d) Geo-stationary orbit



Total No. of Questions :5]

SEAT No. :

[Total No. of Pages : 2

PE4633

[6515]-31

M.A. / M.Sc.-I

GEOGRAPHY

GEO 562 MJ : Geography of India

**(2023 Credit Pattern) (Semester-II) (Major Elective Group - B)
(2 Credits)**

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *Q.No. 1 is Compulsory.*
- 2) *Attempt any three questions from Q.No.2 to Q.No.5*
- 3) *Q.2 to Q.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) Write relative location of India.
- b) Name the largest state in India in terms of area.
- c) What is the north-south extension of India?
- d) Write main seasons in India.
- e) Name any two soil types in India.
- f) Write any two rice producing states in India.
- g) Name any two well known states for I.T. Industries.

Q2) a) Describe peninsular plateau of India.

[6]

b) Discuss the south-west monsoon season in Indian agriculture.

[4]

Q3) a) Explain technological factors affecting on India.

[6]

b) Describe major industrial regions in India.

[4]

P.T.O.

Q4) a) Elaborate Godavari River system of India. [6]

b) Discuss Halley's view about origin and mechanism of Indian monsoon.[4]

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

a) Ganga River system.

b) El-Nino and La-Nina

c) Sugarcane producing regions in India.

d) Problems of industrial development in India.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4634

[6515]-32

M.A/M.Sc. - I

GEOGRAPHY

GEO 564 MJ :Political Geography

(2023 Credit Pattern) (Semester - II) (Group - C)

Time : 2Hours]

[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) *Question 2 to 5 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use to map stencil is allowed.*

Q1) Answer any five of the following.

[5]

- a) Define political geography.
- b) What do you mean by buffer states?
- c) Who proposed Heartland theory?
- d) What is Boundaries?
- e) Write the name of border line between India & China.
- f) Define Geopolitics.
- g) Enlist the elements of state.

Q2) a) Describe the nature of political geography.

[6]

b) Explain the geopolitical significance of the Indian Ocean.

[4]

Q3) a) Distinguish between State & Nation.

[6]

b) Explain the importance of political geography.

[4]

P.T.O.

Q4) a) Discuss the Heartland theory. **[6]**

b) Explain the India and Pakistan border dispute. **[4]**

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

a) Buffer zone

b) Indus and Brahma Putra water dispute.

c) Geopolitics of the middle East.

d) Scope of political geography.



Total No. of Questions : 7]

SEAT No. :

PE4635

[Total No. of Pages : 2

[6515]-41

Second Year M.A./M.Sc.

GEOGRAPHY

**GEO 601 MJ (A) : Tropical Geomorphology
(2023 Credit Pattern) (Semester - III) (4 Credits)**

Time : 3Hours]

[Max. Marks : 70

Instructions to the candidates:

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

Q1) Answer any five of the following:

[10]

- a) Define morphogenetic regions.
- b) What is tropical weathering?
- c) What is duricrust?
- d) How slope wash occurs?
- e) Write any two types of tropical coast.
- f) What is an etchplain?
- g) Write any two names of landforms developed in tropics.

Q2) a) Describe peculiarities of tropical climate.

[7]

b) Explain the deep weathering profile in the tropics.

[5]

Q3) a) Explain the process of soil formation in tropics.

[7]

b) Describe various divisions of lateritic profile.

[5]

P.T.O.

- Q4)** a) Explain the types of mass movement in tropics. [7]
b) What are the relief characteristics of tropical terrain? [5]
- Q5)** a) Explain some common landforms found in tropical region? [7]
b) What is pediplain and how does it occur? [5]
- Q6)** a) Explain the role of tectonics and climate change in the tropical land form development. [7]
b) Describe the types of planation surfaces. [5]
- Q7)** Write short notes on any Two of the following. [12]
a) Indurated laterites.
b) Climate change.
c) Tropical environment.
d) Boulder inselbergs.



Total No. of Questions : 7]

SEAT No. :

[Total No. of Pages : 2

PE4636

[6515]-42

M.A/M.Sc. - II

GEOGRAPHY

GEO 601(B) MJ : Monsoon Climatology

(2023 Credit Pattern) (Semester - III) (Core Special - 3(B)) (4 Credit)

Time : 3Hours]

[Max. Marks : 70

Instructions to the candidates:

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

Q1) Answer any five of the following.

[10]

- a) What is Easterly Jet?
- b) Define Surface winds.
- c) Who first explained the thermal origin of monsoon?
- d) List any two factors used for monsoon forecasting.
- e) What are the different types of weather forecasting?
- f) What is full form of IMD?
- g) Write the names of the monsoon seasons existing in the Indian subcontinent.

Q2) a) Explain the monsoon model on non-rotating and rotating earth.

[7]

b) Discuss Flohn's concept of origin of monsoon.

[5]

Q3) a) Describe the effect of atmosphere's compressibility on the driving mechanism of monsoon.

[7]

b) How do Easterly Jet streams affect Indian monsoon?

[5]

P.T.O.

- Q4)** a) Explain the role of monsoon depressions in rainfall distribution. [7]
b) Discuss the mechanism of Indian monsoon. [5]
- Q5)** a) Explain Walker circulation. [7]
b) Describe the role of Tibetan High in Indian monsoon. [5]
- Q6)** a) Give an account of current monsoon forecasting system followed by India Meteorological department (IMD). [7]
b) Explain the scope of monsoon climatology. [5]
- Q7)** Write short notes on any Two of the following. [12]
a) North Atlantic Oscillation (NAO).
b) Discuss the parametric model of forecasting.
c) Effect of topography on variation of monsoon.
d) South - West monsoon.



Total No. of Questions :7]

SEAT No. :

[Total No. of Pages : 2

PE4637

[6515]-43

M.A. / M.Sc.-II

GEOGRAPHY

GEO 601 MJ (C) : Geography of Development-II

(2023 Credit Pattern) (Semester-III)

Time :3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Q.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:

[10]

- a) Define the term under developed countries.
- b) What is communication?
- c) Define renewable energy.
- d) Define human resource
- e) Define small scale industry
- f) Write any two historical causes of unequal development.
- g) What is industrialization?

Q2) a) Describe the role of biophysical factors in creating disparities between First and third world countries. **[7]**

b) Explain the impact of international relationship on trade development with suitable examples. **[5]**

Q3) a) Enlist the goals of UN for sustainable development and explain any two in detail. **[7]**

b) Explain the need of renewable energy resources development in India. **[5]**

P.T.O.

- Q4)** a) Describe Indian government policy for service sector development [7]
b) Explain the impact of globalization on employment creation. [5]
- Q5)** a) Distinguish between developed and under developed countries. [7]
b) Explain the importance of investment in transportation. [5]
- Q6)** a) Explain political causes of uneven development of a region. [7]
b) Explain importance of innovation for energy sector development [5]
- Q7)** Write short notes any two of the following: [12]
a) Per capita Income
b) International Trade
c) Sustainable development
d) Impact of industrialization



Total No. of Questions :7]

SEAT No. :

[Total No. of Pages : 2

PE4638

[6515]-44

M.A. / M.Sc.-II

GEOGRAPHY

GEO 601(D) MJ: Urban Geography

(2023 Credit Pattern) (Semester-III) (Core Special-3 Theory) (4 Credit)

Time :3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Q.1 No 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) What is urban geography?
- b) Define urbanization.
- c) Name the different types of classification of cities in India.
- d) What is the concept of urban morphology?
- e) Who wrote the central place Theory?
- f) Name any two contemporary urban issues.
- g) Who invented the sector model?

Q2) a) Describe the approaches of urban geography.

[7]

b) Explain the patterns of urbanization in India.

[5]

Q3) a) Explain the development of urban geography.

[7]

b) Discuss the criteria used for urban classification.

[5]

Q4) a) Discuss the urban issue of solid waste management.

[7]

b) Explain the characteristics of urban population age structure.

[5]

P.T.O.

Q5) a) Describe the concentric zone Model of urban morphology. [7]

b) Discuss the pioneers of urban planning. [5]

Q6) a) Discuss the review of spatial-temporal variations in urbanization in the world. [7]

d) Explain the urban policy five-year plans. [5]

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

a) Concept of new towns.

b) WHO concept of healthy city

c) Livable city

d) AMRUT



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4639

[6515]-45

M.A/M.Sc. - II

GEOGRAPHY

GEO 603 MJ:Watershed Management

(2023 Credit Pattern) (Semester - III)

Time : 2Hours]

[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) *Question 2 to 5 carry equal marks.*
- 4) *Figures to the right indicates full marks.*
- 5) *Use to map stencil is allowed.*

Q1) Answer any five of the following.

[5]

- a) Define 'Watershed'.
- b) What is Hydrology?
- c) What do you mean by surface run-off?
- d) What is watershed delineation?
- e) Define term bifurcation ratio.
- f) What is flood control?
- g) Where Hiware Bazar village is located?

Q2) a) Explain the hydrological cycle in brief.

[6]

b) Explain the nature of watershed.

[4]

Q3) a) Describe the important methods of water conservation.

[6]

b) Explain the impact of watershed development on agriculture.

[4]

P.T.O.

Q4) a) Describe the importance of watershed management in development of village Ralegan Siddhi/Hiware Bazar. **[6]**

b) Explain the significance of watershed development in flood control. **[4]**

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

a) Importance of water supply management.

b) Watershed development and livelihoods.

c) Relief aspects of watershed.

d) Scope of watershed.



Total No. of Questions : 7]

SEAT No. :

PE-4640

[Total No. of Pages : 2

[6515]-46

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

GEOGRAPHY

**GEO-604-MS (A) : Applied Geomorphology
(2023 Pattern) (Semester - III) (4 Credits)**

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 Q. 7 carry equal marks.
- 4) Use of Map Stencil is allowed.

Q1) Solve any Five of the following.

[10]

- a) What is applied Geomorphology.
- b) What is slope instability?
- c) Write any two effects of volcanoes.
- d) What is environmental management?
- e) What is land system approach?
- f) What is road building?
- g) Define the term avalanches.

Q2) a) Describe the contemporary development of applied geomorphology.

[7]

b) Write the role of geomorphologists in the resources management. **[5]**

Q3) a) Explain soil erosion hazards and its management.

[7]

b) Write effects of coastal hazards? **[5]**

P.T.O.

- Q4)** a) Write in details control and prevention of soil erosion. [7]
b) What are the causes of river flood hazards? [5]
- Q5)** a) Describe the effects of weathering on destruction of natural material.[7]
b) What is coast management? [5]
- Q6)** a) Explain the significance of geomorphology in resources evaluation.[7]
b) What the significance of land system approach? [5]
- Q7) Write short notes of the any two of the following:** [12]
a) Environmental Hazards
b) Applied geomorphology
c) Landslide hazard
d) Flood as geomorphological hazard



Total No. of Questions : 7]

SEAT No. :

PE-4641

[Total No. of Pages : 2

[6515]-47
M.A./M.Sc. - II
GEOGRAPHY
GEO 604B MJ Core Special 4(B) : Applied Climatology
(2023 Pattern) (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) *Questions 2 to 7 carry equal marks.*
- 4) *Use to map stencil is allowed.*

Q1) Solve any Five of the following :

[10]

- a) Define evaporation.
- b) The concept of pollution.
- c) What is urbanisation?
- d) What is cyclone?
- e) Write any two causes of urban air pollution.
- f) State two effects of climate change.
- g) Write any two effects of climate on soil.

Q2) a) Explain the scope of applied climatology.

[7]

b) Write the stages in the development of applied climatology.

[5]

P.T.O.

- Q3)** a) Write in detail the causes of urban air pollution. [7]
b) Discuss the role of climate in agricultural development. [5]
- Q4)** a) Describe the influence of climate in construction operations. [7]
b) Explain the nature of urban climates. [5]
- Q5)** a) Discuss the influence of climate on human health. [7]
b) Write in detail the effects of urban air pollution. [5]
- Q6)** a) Describe the impact of climate on land transport. [7]
b) Write the applications of applied climatology in droughts and cyclones. [5]
- Q7)** Write short notes any two of the following : [12]
a) Climate impact assessment.
b) Human bio-meteorology
c) Significant climate variables
d) Energy and climate.



Total No. of Questions : 7]

SEAT No. :

PE-4642

[Total No. of Pages : 2

[6515]-48

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

GEOGRAPHY

GEO - 604 MJ (C) : Advances in Economic Geographyp
(2023 Pattern) (Semseter - III)

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 5 carry equal marks.*
- 4) *Use to map stencil is allowed.*

Q1) Solve any Five of the following :

[10]

- a) Define Economic Geography.
- b) Name any two types of natural resources.
- c) In which year classical location theory was published?
- d) What is mean by trade?
- e) Write any two economic activities.
- f) Define Region.
- g) What is export?

Q2) a) Describe the New Economic Geography of kruqman and Fujita.

[7]

b) Write importance of resources in the economy.

[5]

Q3) a) Explain Economic Landscape in brief.

[7]

b) Describe Global Production Network.

[5]

P.T.O.

- Q4)** a) Explain the implications of globalization for regional economics. [7]
b) Discuss the regional development in India. [5]
- Q5)** a) Write characteristics of Multinational Corporation. [7]
b) Explain regional development strategies. [5]
- Q6)** a) Explain the factors affecting on regional disparities. [7]
b) Explain the types of trades. [5]
- Q7)** Write short notes any Two of the following : [12]
a) Concept of economy
b) Firm location Decision
c) Export Policies
d) Regionalization.



Total No. of Questions : 7]

SEAT No. :

PE-4643

[Total No. of Pages : 2

[6515]-49

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

GEOGRAPHY

GEO - 604 MJ (D) : Geography of Migration
(2023 Pattern) (Semseter - III) (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 to map stencil is allowed.*

Q1) Solve any Five of the following :

[10]

- a) Write any two significance of geography of migration.
- b) Define international migration.
- c) Define pull factor of migration.
- d) What is rural to urban migration?
- e) Write any two push factors of migration.
- f) What is illegal migration.
- g) Write any two key principles of the last Refugee convention.

Q2) a) Describe the scope of geography of migration.

[7]

b) Elaborate the concept of migration.

[5]

Q3) a) Explain the Demographic consequences of migration.

[7]

b) Describe the push factors of migration.

[5]

P.T.O.

- Q4)** a) Discuss the environmental issues of migration. [7]
b) Explain the issues at destination of internal migration. [5]
- Q5)** a) Explain the problems and prospects of international migration. [7]
b) Ravenstein's laws of migration. [5]
- Q6)** a) Explain the Everett Lee's theory of migration. [7]
b) Discuss the issues of labour migration. [5]
- Q7)** Write short notes any Two of the following : [12]
a) National migration policy in India.
b) Types of migration.
c) International migration policy.
d) Urban to urban migration.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4644

[6515]-50

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

GEOGRAPHY

**GEO 610 MJ:Advances in Geoinformatics
(2023 Credit Pattern) (Semester - III)**

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) *Question 2 to 5 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

Q1) Answer any five of the following.

[5]

- a) Define Geoinformatics.
- b) What is active remote sensing?
- c) Which filter is used for image enhancement?
- d) What is multiple layer operations?
- e) What is photogrammetry?
- f) Write any two functions of mapping.
- g) Which country first introduced GPS navigation system?

Q2) a) Explain the types of errors of image enhancement.

[6]

b) Explain the point pattern analysis.

[4]

Q3) a) Describe the functioning of GPS.

[6]

b) Describe the network analysis.

[4]

P.T.O.

Q4) a) Explain the types of contrast stretching of image enhancement. **[6]**

b) Explain spatial Analysis. **[4]**

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

a) Application of Remote sensing.

b) History of GPS.

c) Edge Enhancement.

d) GIS.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4645

[6515]-51

M.A/M.Sc. - II

GEOGRAPHY

**GEO 612 MJ : Geography of Resource Management
(2023 Credit Pattern) (Semester - III) (Group - B) (2 Credits)**

Time : 2Hours]

[Max. Marks : 35

Instructions to the candidates:

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

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

- a) Write any two approaches name to study the resource management.
- b) What is renewable resource.
- c) Write any two names of non-renewable resources.
- d) Define resources conservation?
- e) What is reuse?
- f) Write any two policies on renewable energy in India.
- g) Name any two nuclear power stations in maharashtra.

Q2) a) Describe Scope of resource management. [6]

b) Write a note on water resources. [4]

Q3) a) Describe the management of resources. [6]

b) Explain the applications of GIS in resource management. [4]

P.T.O.

Q4) a) Describe hybrid system programme in India. **[6]**

b) Write a note on forest resources. **[4]**

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

a) Reduce

b) Soil resources.

c) Solar energy

d) Wind energy.



Total No. of Questions : 5]

SEAT No. :

[Total No. of Pages : 2

PE4646

[6515]-52

M.A./M.Sc. - II

GEOGRAPHY

**GEO-614(C)-MJ:Regional Planning and Development
(2023 Credit Pattern) (Semester - III) (Major Elective) (Group - C)**

Time : 2Hours]

[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 to map stencil is allowed.*

Q1) Answer any five of the following.

[5]

- a) Define region.
- b) What is regional planning.
- c) What is regional development.
- d) What is town planning.
- e) Write the stages of regional planning.
- f) Write any two functions of regional plan.
- g) Name two challenges of regional development.

Q2) a) Describe the metropolitan planning in India.

[6]

b) Explain the need of regional planning.

[4]

Q3) a) Explain the social indicators of regional development.

[6]

b) Write a drought prone development programme in India.

[4]

P.T.O.

Q4) a) Discuss the regional disparities in India. **[6]**

b) Explain the vernacular regions in regional planning. **[4]**

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

a) Formal region.

b) Tribal Area Development Programme in India.

c) Primary functions of planning.

d) The sector model (Theory).



Total No. of Questions : 7]

SEAT No. :

PE4647

[Total No. of Pages : 2

[6515]-61

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

GEOGRAPHY

GEO 651 MJ : Social and Cultural Geography

(2023 Credit Pattern) (Semester - IV)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

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

Q1) Solve any five of the following.

[10]

- a) Who is the father of social Geography?
- b) What is race?
- c) Write any two tribes belongs to North - East India.
- d) What is poverty?
- e) What is social wellbeing?
- f) What is cultural integration?
- g) Write any two cultural identity of Maharashtra.

Q2) a) Describe the developments in social Geography.

[7]

b) Discuss the distribution of race.

[5]

Q3) a) Explain human health issues in India.

[7]

b) Write the significance of cultural geography.

[5]

Q4) a) Discuss the cultural regions of the world.

[7]

b) Describe the globalization of culture.

[5]

P.T.O.

- Q5)** a) Describe folk culture and its revival. [7]
b) Relationship between social Geography and social sciences. [5]
- Q6)** a) Spatial distribution of tribes in the world. [7]
b) Education as a social issue in India. [5]
- Q7)** Write short notes on any two of the following. [12]
a) Development in cultural Geography.
b) Cultural assimilation.
c) Process of acculturation.
d) Sex ratio.



Total No. of Questions : 7]

SEAT No. :

PE-4648

[Total No. of Pages : 2

[6515]-62
M.A./M.Sc.(Part-II)
GEOGRAPHY
GEO 652 MJ: Geography of Disaster Management
(2023 Pattern) (Semester - IV) (Credits-4)

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.*

Q1) Solve any five of the following :

[10]

- a) Define hazards.
- b) What is cyclone?
- c) Define earthquake.
- d) Write any two functions of local administration in disaster response.
- e) What is mitigation?
- f) What is disaster management?
- g) Write any two social impact of disaster.

P.T.O.

- Q2)** a) Describe natural disasters with suitable examples. [7]
b) Write a short note on chemical disasters. [5]
- Q3)** a) Explain the causes of fire. [7]
b) Discuss the role of NDRF in disaster management. [5]
- Q4)** a) Discuss the impact of disaster on environment. [7]
b) Describe the concept of disaster with suitable examples. [5]
- Q5)** a) Describe the effects of tsunami. [7]
b) Write a note on disaster relief funding. [5]
- Q6)** a) Explain the major man-made disasters in India with examples. [7]
b) Describe the causes of stampedes. [5]
- Q7)** Write short notes any two of the following. [12]
a) Recovery.
b) Role of geographer in disaster management.
c) Political impact of disaster.
d) Forest fire.



Total No. of Questions : 5]

SEAT No. :

PE-4649

[Total No. of Pages : 2

[6515]-63

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

GEOGRAPHY

GEO - 660 MJ :Advance Surveying
(2023 Pattern) (Semseter - IV) (Credits 2)

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 is an auto level?
- b) What is DGPS?
- c) Write any two functions of DGPS.
- d) Define vertical angle.
- e) Name the parts of a total station.
- f) What is UAV?
- g) Write any two uses of a drone survey.

Q2) a) Discuss the uses of GPS. **[6]**

b) Explain the functions of an auto level. **[4]**

Q3) a) Explain the functions of a total station. **[6]**

b) Discuss advance surveying instruments. **[4]**

P.T.O.

- Q4)** a) Explain the directions of Directorate General of Civil Aviation in drone survey. [6]
b) Write the uses of DGPS [4]

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

- a) Single frequency DGPS
- b) Remote Elevation Measurement (REM)
- c) Drone survey.
- d) Application of advance surveying in Geography.



Total No. of Questions : 5]

SEAT No. :

PE-4650

[Total No. of Pages : 2

[6515]-64

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

GEOGRAPHY

GEO - 662 MJ : Geography of Maharashtra

(2023 Credit Pattern) (Semester - IV) (Credits : 2)

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) Write geographical location of Maharashtra.
- b) What is climatic region?
- c) Name tributaries of Krushna river.
- d) What is Sex ratio?
- e) Define migration.
- f) Enlist major crops in Maharashtra.
- g) Enlist any two import agriculture products in Maharashtra.

Q2) a) Describe administrative divisions of Maharashtra.

[6]

b) Write note on climatic regions of Maharashtra.

[4]

Q3) a) Explain population distribution in Maharashtra.

[6]

b) Describe wheat distribution in Maharashtra.

[4]

P.T.O.

- Q4)** a) Discuss factors affecting on agriculture in Maharashtra. [6]
b) Explain sex composition of Maharashtra. [4]
- Q5)** Write any Two short notes of the following : [10]
a) Physiographic divisions of Maharashtra.
b) Major soil types of Maharashtra.
c) Historical background of Maharashtra.
d) Causes of Migration.



Total No. of Questions : 5]

SEAT No. :

PE-4651

[Total No. of Pages : 2

[6515]-65

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

GEOGRAPHY

GEO - 664 MJ : Environmental Laws

(2023 Pattern) (Semseter - IV) (Credits - 2)

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 Environmental Laws?
- b) Define 'Global Warming'.
- c) Which day is celebrated as the World Environmental day?
- d) What is climate change?
- e) What is the objective of the Water (Prevention and Control of Pollution) Act, 1974?
- f) Define water pollution.
- g) State any two causes of deforestation in India.

Q2) a) What are the salient features of the forest conservation act, 1980. **[6]**

b) What are the major key points of plastic waste management rule, 2016.**[4]**

Q3) a) Explain the constitutional provision of environmental laws. **[6]**

b) Explain the concept of ozone depletion. **[4]**

P.T.O.

- Q4)** a) Describe the measures to prevent and control the air pollution. [6]
b) What are the penalties for the air pollution act, 1981? [4]

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

- a) Sustainable development
- b) Measures for control water pollution
- c) Concept of environmental protection
- d) Wildlife protection act, 1972

