CENTRAL UNIVERSITY OF HARYANA

Term End Examinations, May-June 2018 (REAPPEAR)

Programme :M.Sc. Geography
Semester : 2nd
Course Title: Climatology
Course Code: SEE GEO 1 2 05 C 4105

Session: 2017-18
Max. Time: **3 Hours**
Max. Marks : **70**

Note: There are **total five questions** in this question paper and all are **compulsory**. Each Question carries **Fourteen Marks**. Maps /diagrams are required in answer.

Question no.1 has **seven sub parts** and students need to answer any four parts.
Question No1.   (4X3.5=14)

   a. Nature of climatology
   b. Insolation
   c. El-nino
   d. Type of front
   e. 'Am' climate
   f. Precipitation effectiveness Index of Thornthwaite
   g. Role of volcanism in global warming

Note: Question number **Two to Five** have three sub parts and students need to answer **any two sub part** of each question. Each sub part carries **seven marks**.

Question No.2   (2X7=14)
   a. What is inversion of temperature? Explain the type of inversion.
   b. Elaborate the heat budget of earth.
   c. Explain the formation of clouds and classify the clouds according to height.

Question No.3   (2X7=14)
   a. What is adiabatic change in atmosphere? Explain different type of stability and instability in atmosphere.
   b. Discuss ENSO phenomena in the context of Indian monsoon.
   c. Explain the following things about air mass- characteristics, type and utility in climatology.

Question No.4   (2X7=14)
   a. Critically examine the Koppen's classification of climate.
   b. Elaborate the Mediterranean climate over the earth.
   c. Provide detail account of tropical dry desert climate (BWh).

Question No.5   (2X7=14)
   a. Discuss the effect of global warming on agriculture and health.
   b. 'Global warming is a cyclic process'- argue on its pace.
   c. Evaluate the impact of global warming on developed and developing country's economy.

CENTRAL UNIVERSITY OF HARYANA

Programme: M.Sc. Geography

Semester: II

Course Title: Geographical Thought

Course Code: SEE GEO 1 2 05 C4105

Session: 2017-18

Max. Time: 3 Hours

Max. Marks: 70

Instructions:

1. Question no. 1 has seven sub parts and students need to answer any four. Each sub part carries three and half Marks.

2. Question no. 2 to 5 have three sub parts and students need to answer any two sub parts of each question. Each sub part carries seven marks.

Question No. 1.   (4X3.5=14)

      a) Spatial organisation
      b) Principles of unity in diversity
      c) Positivism in geography.
      d) Post- modernism in geography
      e) Types of theories
      f) Methods in Geographical analysis
      g) Types of epistemology

Question No. 2.   (2X7=14)

    a) Elaborate: Geography is both natural and human science.
    b) Discuss the changing paradigm of Geography.
    c) Highlight conceptual and methodological development of Environmental Determinism and its impact on Geography.

Question No. 3.   (2X7=14)

    a) Discuss the basic concepts of positivism and its role in development of Geography as a subject.
    b) Explain quantitative resolution in Geography.
    c) Examine the changing nature of man-nature relationship.

Question No. 4.   (2X7=14)

    a) Evaluate the epistemological development of Geography during the second half of the 20th century.
    b) Explain the differences between quantitative and qualitative methods of Geography.
    c) Discuss the contribution of cartography towards Geographical studies.

Question No. 5.   (2X7=14)

    a) Describe recent trends in modern Indian Geography.
    b) Critically examine contributions of various Indian geographers in the development of Geography.
    c) World is changing rapidly'. In the light of this statement, present a picture of 'Future of Geography' elaborating its nature, concepts, and approaches.

Programme: M.Sc. Geography   Session: 2017-18

Semester: II   Max. Time: 3 Hours

Course Title: Geographical Thought   Max. Marks: 70

Course Code: SGEO 03 C0203 & TMC 03203

Instructions:

1. Question no. 1 has seven sub-parts and students need to answer any four sub-parts carries three and half marks.

2. Question no. 2 to 6 have seven sub-parts and students need to answer any two sub-parts of each question. Each sub-part carries seven marks.

Question No. 1   [3½ X4=14]

a) Spatial organization
b) Evolution of early civilization
c) Dualism in geography
d) Post- modernism in geography
e) Types of theories
f) Methods in Geographical analysis
g) Types of revolutions/etc.

Question No. 2   [7X2=14]

a) Difference 'Geography' in both cultural and human context.
b) Discuss the changing paradigm of Geography.
c) Highlight conceptual and methodological development of Environmental Determinism and its impact on Geography.

Question No. 3   [7X2=14]

a) Discuss the basic concepts of particularism and its role in development of Geography as a subject.
b) Explain quantitative revolution in Geography.
d) Examine the Changing nature of man-nature relationship.

Question No. 4   [7X2=14]

a) Elaborate the systematization and show synthesis of Geography during the second half of the 20th century.
b) Explain the difference between quantitative and qualitative methods of Geography.
c) Discuss the contribution of contemporary scholars to Geographical studies.

Question No. 5   [7X2=14]

a) Examine recent trends of modern Indian Geography.
b) Evaluate various contribution of various Indian geographers in the development of Indian study.
    study is moving rapidly." In the light of this statement explain Spheres of Geography. Substantiate your answer with suitable examples and illustrations.

CENTRAL UNIVERSITY OF HARYANA

Term End Examinations, May-June 2018

Programme: M.Sc. Geography
Semester : 2nd
Course Title: Hydrology and Oceanography
Course Code: SEE GEO 1 2 06 C 4105

Session: 2017-18
Max. Time: **3 Hours**
Max. Marks : **70**

Note: There are **total five questions** in this question paper and all are **compulsory.** Each Question carries **Fourteen Marks.** Maps /diagrams are required in answer.

Question no.1 has **seven sub parts** and students need to answer any four parts.

Question No1. (4X3.5=14)

a. Ooze: calcareous, siliceous
b. Submarine canyon
c. Lithification
d. Thiessen polygon
e. *Darcy's Law*
f. Biological oxygen demand
g. Tsunami

Note: Question number **Two to Five** have three sub parts and students need to answer **any two sub part** of each question. Each sub part carries **seven marks.**

Question No.2 (2X7=14)
a. Explain the Hydrological cycle.
b. What is interception? Explain the interception losses from different type of vegetation.
c. What is soil moisture? Discuss the factors which affects the soil moisture.

Question No.3 (2X7=14)
a. Discuss the physical and chemical parameters of water quality.
b. What is interstate water dispute? Give detail account of any interstate water dispute with pros and cons.
c. Analyse the traditional methods of water resource management in India.

Question No.4 (2X7=14)
a. What is sediment in ocean? Classify and explain sediment according to source.
b. Explain the relationship of water temperature, water salinity and water density in oceans along with suitable diagram ?
c. Elaborate the theory of Plate tectonic in the light of sea floor spreading.

Question No.5 (2X7=14)
a. What is coral? Provide a account of characteristics and types of coral reefs?
b. What do mean by marine resources? Elaborate the food and energy resources?
c. Give a detail account of the interlink between atmospheric circulation and circulation pattern in the oceans ?

CENTRAL UNIVERSITY OF HARYANA

<u>Term End Examinations, May/June 2018</u>

Programme: Master of Science in Geography

Semester: II

Course Title: Urban Geography

Course Code: SEE GEO 1 2 01 DCEC 3104

Session: 2016-17

Max. Time: 3 Hours

Max. Marks: 70

Instructions:

1. Question no. 1 has seven sub parts and students need to answer any four. Each sub part carries three and half Marks.

2. Question no. 2 to 5 have three sub parts and students need to answer any two sub parts of each question. Each sub part carries seven marks.

Question No. 1.   (4X3.5=14)
   a) Write a short note on the Breaking Point concept.
   b) What is Christaller's Administrative Principle?
   c) Megalopolis
   d) Write the differences between satellite towns and suburbs.
   e) Urban Sprawl
   f) Growth of urban population In India
   g) Urban Land Use Planning in India

Question No. 2.   (2X7=14)
   a) Discuss the nature and scope of urban geography.
   b) Explain the importance of site on evolution of towns in India.
   c) Describe the basic characteristics of pre-industrial cities in India.

Question No. 3.   (2X7=14)

   a) Give a comparative and critical assessment of various interpretations on rank size rule.
   b) Discuss the evolution and characteristics of CBD citing examples from India.
   c) Expound the structural theories regarding the internal structure of Indian cities.

Question No. 4.   (2X7=14)
   a) Trace out the brief history of urbanization in India.
   b) Discuss the trends and patterns of urbanization in different continents of the world.
   c) Explain the urbanization cycle and discuss salient features of urbanization in India.

Question No. 5.   (2X7=14)

   1. Explain the impact of transportation on urban environment in India.
   2. Describe in detail the problem of slums in India.
   3. Describe in detail the crimes that committed in urban India.

Instructions:

1. Question No.1 has been split into nine sub questions and every two are compulsory. Each has been part carries equal and has begun.

2. There are Q.2 to 5 have four sub parts each of which one to answer any two sub parts of each question. Q.6 and part carries equal marks.

Question No. 1
a) Write a short note on the theories of urban morphology.   [8×2=16]
b) What is Urbanism? Aerotropolis? Conurbation?
c) Megalopolis.
d) What the differences between satellite towns and suburbs.
e) Urban Sprawl.
f) Growth of urban settlements in India.
g) Urban Land Use Planning in India.

Question No. 2
a) Discuss the nature and scope of urban geography.
b) Explain the importance of site and situation of towns in India.
c) Describe the basic characteristics of pre-industrial town in India.

Question No. 3.   [7×2=14]
a) Give a comparative and critical assessment of various theories of urban land use.
b) Discuss the evolution and characteristics of CBD along examples from India.
c) Describe the two-part process explaining the internal structure of Indian cities.

Question No. 4
a) Trace out the recent pattern of urbanization in India.   [7×2=14]
b) Discuss the trends and patterns of urbanisation in different regions of the world.
c) Explain the main causes and socio-economic factors influencing urbanisation in India.

Question No. 5.   [7×2=14]
1. Explain the impact of towns and cities on their hinterland areas.
2. Attempt to trace the problem of slums in India.
3. Discuss the social and civic problems in Indian cities.

Programme: Master of Science in Geography
Semester: II
Course Title: Statistical Methods in Geography
Course Code: SEE GEO 1 2 07 C 4105

Session: 2017-18
Max. Time: 3 Hours
Max. Marks: 70

Instructions:

1. Question no. 1 has seven sub parts and students need to answer any four. Each sub part carries three and half Marks.

2. Question no. 2 to 5 have three sub parts and students need to answer any two sub parts of each question. Each sub part carries seven marks.

Question No. 1.   (4X3.5=14)

    a) What is frequency distribution?

    b) Define dispersion.

    c) What is Central Tendency?

    d) Calculate harmonic mean from the following data: 5, 15, 25, 35 and 45.

    e) Difference between Correlation and Regression

    f) Can coefficient of variation be greater than 100%? If so, when?

    g) What is meant by Regression Equations?

Question No. 2.   (2X7=14)

    a) Describe the main statistical tools used in geographical analysis.

    b) How do you construct a questionnaire for data collection? State the merits and demerits of questionnaire method.

    c) Explain stratified sampling and quota sampling with examples.

Question No. 3.   (2X7=14)

    a) From the following frequency distribution of heights of 360 boys in the age-group 10 – 20 years calculate the: (i) Arithmetic mean; and (ii) Coefficient of variation;

Height (cms)	No. of boys	Height (cms)	No. of boys
126-130	31	146-150	60
131-135	44	151-155	55
136-140	48	156-160	43
141-145	51	161-165	28

    b) Calculate the mean centre of a population of 10 villages with the following data.

S.no	Location Coordinate		Population
	X	Y	
1.	1.0	0.9	150
2.	1.3	1.2	210
3.	3.7	5.4	140
4.	0.8	4.2	160
5.	9.9	0.1	320
6.	1.2	8.0	145
7.	6.6	0.8	120
8.	2.5	0.6	150
9.	3.1	2.6	321
10.	7.9	9.8	231

c) Find out standard deviation of the following data-set, using step-deviation method:

Marks	20-40	40-60	60-80	80-100	100-120	120-140
Number of Students	6	9	8	10	11	6

Question No. 4. (2X7=14)

a) (i) From the following data, determine Karl Pearson's Coefficient of Correlation between X and Y series for 15 pairs:

(ii) Describe the various degrees of correlation.

	X- series	Y- series
Mean	80	120
Sum of squares of deviation from Arithmetic Mean	56	156
Sum of product of deviations of X and Y from their respective Means	92	

b) Obtain coefficient of correlation between X and Y series by rank difference method.

X	26	24	30	27	27	25	23	30
Y	28	23	22	26	25	24	38	23

c) What is scattered diagram method to calculate correlation? Discuss its types, merits and demerits.

Question No. 5. (2X7=14)

a) Obtain regression equations by calculate both regression coefficient. Estimate the likely height of the son when father's height is 67.5 inches. Represent the regression lines on a graph paper.

Height of father (in inches)	65	66	67	67	68	69	71	73
Height of Son (in inches)	67	68	64	68	72	70	69	70

b) What do you understand by t- test and U-test? Describe their practical importance.

c) Two investigation selected sample to estimate the number of persons in lower, middle and higher income groups in a city. The results are as under- prove that the sampling technique adopted by ablest one of the investigators is suspect or biased. (Value of x2 at 5% level of significance at 2 d.f. is 5.991)

Investigation	Income- Group			Total
	Lower	Middle class	Well to do	
A	140	100	15	255
B	140	50	20	210
Total	280	150	35	465

Programme :M.Sc. Geography
Semester : 2nd
Course Title: Adv. Geography of India
Course Code: SEE GEO 1 2 07 C 4105

Session: 2017-18
Max. Time: **3 Hours**
Max. Marks : **70**

Note: There are **total five questions** in this question paper and all are **compulsory**. Each Question carries **Fourteen Marks**. Maps /diagrams are required in answer.

Question no.1 has **seven sub parts** and students need to answer any four parts.
Question No1.   (4X3.5=14)

a. Difference between Eastern and Western Coastal Plain
b. Factors influence the Indian Monsoon
c. Geographical factors influence the location of Industry
d. Problems and solutions of Indian agriculture
e. Population density in India
f. Human development Index
g. Effect of information technology on Indian economy

Note: Question number **Two to Five** have three sub parts and students need to answer **any two sub part** of each question. Each sub part carries **seven marks**.

Question No.2   (2X7=14)
a. Elaborate the role of Himalaya in Indian monsoon.
b. What is physiographic division? Explain any physiographic division of India.
c. Explain natural vegetation of India with their distinct problems.

Question No.3   (2X7=14)
a. Discuss the effect of green revolution on ecology and socio-economic profile of farmers.
b. What is industrial region? Explain gurgoan-delhi-meerut industrial region.
c. Explain the salient features of Indian agriculture.

Question No.4   (2X7=14)
a. Give a brief account of India's National population policy.
b. Discuss the problem of Indian Population.
c. Explain the trend and pattern of child sex ratio in India.

Question No.5   (2X7=14)
a. What are standards for noise pollution? Explain cause, effect and measures to control it.
b. Analysis the causes and consequences of regional disparity in India.
c. Discuss the development in India in the reference of interlink among the rail, road and water ways.

Programme: M.A. Geography
Semester: I
Course Title: Arts Geography in India
Course Code: ...

Note: These are total Are questions in two sections each and all are compulsory. Question carries Five than Marks. Maps/diagrams are required to answer.

Question one — Answer with parts and diedand each is carry any first own.
Question No1. [5×6=30]

a. Difference between Eastern and Western Coastal Plain
b. Factors Influence the Indian Climate
c. Geographical factors influence the location of Industry
d. Problems and solutions of Indian agriculture
e. Population density in India
f. Human development index
g. Effect of urbanization technology on Indian economy

Note: Question number Two to Five have three sub parts and students need to answer any two sub part of each question. Each sub part carries seven marks.

Question No 2. [2×7=14]
a. Explain the natural Hazards in Indian situation
b. What is physiographic division? Explain any advantage in division of India
c. Explain natural vegetation of India with their distinct problems.

Question No3. [2×7=14]
a. Discuss the effect of green revolution on ecology in socio economic profile of farmers
b. What is industrial region? Explain geographic delhi-mumbai industrial region
c. Discuss the major features of Indian agriculture

Question No4. [2×7=14]
a. Give a brief account of India's National population policy
b. Discuss the features of Indian Population
c. Explain the historical pattern of shift in urban in India

Question No5. [2×7=14]
a. What are various of the power generation? Explain some efficient resources to make a sustainable future and transportation of resources diversity in India
b. Explain development features in the selection of ... from and various the rail and the ... ...

Programme: M.Sc. Geography
Semester: Second
Course Title: Economic Geography
Course Code: SEE GEO 1201 DCEC 4105

Session: 2017-18
Max. Time: 3 Hours
Max. Marks: 70

Instructions:

1. Question no. 1 has seven sub parts and students need to answer any four. Each sub part carries three and half Marks.

2. Question no. 2 to 5 have three sub parts and students need to answer any two sub parts of each question. Each sub part carries seven marks.

Question No. 1.   (4X3.5=14)
- a) Crop Combination
- b) Central Business District (CBD)
- c) Mean of Production
- d) Market network of rural societies
- e) Spatial organization of economics
- f) Critical Isodapanes
- g) Nehruvian Socialism

Question No. 2.   (2X7=14)
- a) Describe recent trends in economic geography.
- b) Discuss economic policies in India since Independence.
- c) Examine problems and challenges related to Indian agriculture.

Question No. 3.   (2X7=14)
- a) Discuss the von Thunen's 'Location Theory' and its relevance in case of India.
- b) Illustrate the Brookfield concept: 'The Money Grows on Trees' from the perspective of innovation within man-environment relationship.
- c) Describe the major agricultural regions in India.

Question No. 4.   (2X7=14)
- a) Analysis the importance of Alfred Weber's 'Least–Cost Theory' in the location of heavy industries in India.
- b) Comparatively analysis the Losch's theory of 'Economics of Location' and Walter Isard's 'Theory of Substitution'.
- c) Examine the role of raw material in the location of iron and steel industry in India. Illustrate with suitable examples.

Question No. 5.   (2X7=14)
- a) Discuss the sequence of transport network development and settlement Growth in developing countries with special reference to Taaffe, Morrill and Gould (TMG) Model (1963).
- b) Illustrate the importance of Gould's Spatial Exploration Model (1966) with reference to the behavioral and natural limitation in development of transport network.
- c) Critically analysis the Rimmer Model (1977) in the development of hybrid transport system in third world countries by metropolitan powers.

Programme: M.Sc. Geography
Semester: Fourth
Course Title: Regional Development and Planning
Course Code: GEO 14 07 DCEC 3104

Session: 2017-18
Max. Time: 3 Hours
Max. Marks: 70

Instructions:
1. Question no. 1 has seven sub parts and students need to answer any four. Each sub part carries three and half Marks.
2. Question no. 2 to 5 have three sub parts and students need to answer any two sub parts of each question. Each sub part carries seven marks.

Question No. 1.   (4X3.5=14)
a) Regional Planning
b) Growth Pole
c) Economic Development
d) Centralised Planning
e) Planning Region
f) Integrated Planning
g) Economic Region

Question No. 2.   (2X7=14)

a) Highlight the importance of regional planning for developing countries like India.
b) Discuss the centralised and decentralised planning approaches of Regional Planning.
c) Discuss the successful Planning experience from India with special reference to National Capital Region (NCR).

Question No. 3.   (2X7=14)

a) Discuss and differentiate the concept of Economic Development and Regional Development.
b) Explain the decentralisation process in India and discuss its importance in regional planning?
c) What are the major developmental initiatives taken by Central and State govt. since Independence for the Development of Hilly Areas?

Question No. 4.   (2X7=14)

a) What are the major legal and developmental initiatives taken by Central and State govt. since Independence for Scheduled Tribal (ST) Peoples?
b) "The decentralization leads to inefficiency and overlapping responsibilities in the Planning process" Critically examine the statement.
c) Discuss the various challenges for local level planning in India. Suggest measure for improvement.

Question No. 5.   (2X7=14)

a) Discuss the role of growth centre in and economic development in India.
b) Suggest measures for the improvement and efficiency in the regional development planning process in India?
c) Discuss the recent initiatives taken for development strategies in India.

Program: M.Sc. Geography
Semester: Second
Course Title: Regional Development and Planning
Course Code: ...

Instructions:
1. ...
2. ...

Question No. 1

a) Regional Planning
b) Growth Pole
c) ...
d) ...
e) Planning Region
f) ...
g) ...

Question No. 2

a) ...
b) ...
c) ...

Question No. 3

a) ...
b) ...
c) ...

Question No. 4

a) ...
b) ...
c) ...

Question No. 5

a) ...
b) ...
c) ...

CENTRAL UNIVERSITY OF HARYANA

Term End Examinations, May-June 2018

Programme :	**M.Sc. Geography**		
Semester :	**4th**	**Session: 2017-18**	
Course Title:	**Population Geography**	*Max. Time: 3 Hours*	
Course Code:	**SEE GEO 1 4 06 DCEC 3104**	*Max. Marks : 70*	

Note: There are **total five questions** in this question paper and all are **compulsory**. Each Question carries **Fourteen Marks**. Maps /diagrams are required in answer.

Question no.1 has **seven sub parts** and students need to answer any four parts.

Question No1.   (4X3.5=14)

a. Limit to Growth.

b. Use of Census.

c. Classical school of thought on population.

d. Reasons of mortality in India.

e. Mercantilist theory and population.

f. Migration theory-Lee.

g. Sex ratio in India.

Note: Question number **Two to Five** have three sub parts and students need to answer **any two sub part** of each question. Each sub part carries **seven marks.**

Question No.2   (2X7=14)

a. Elaborate the history of census of India and explain the procedure to conduct census in India.

b. Explain the development of civil registration system in India. What are major problems with it.

c. What is Human development index? Analyse the base parameters of HDI with reference to India.

Question No.3   (2X7=14)

a. Critically examine the Malthusian theory on population.

b. Do you believe in demographic transition model? Put your argument in favour of your decision.

c. Explain the following terms- Optimum, under and over population.

Question No.4   (2X7=14)

a. Explain the socio-economic theory of fertility.

b. Explain the trend, cause and consequence of infant mortality in world.

c. Provide detail account of methods on measuring of internal migration.

Question No.5   (2X7=14)

a. What is population policy? Write down the basic characteristics of Indian Population Policy.

b. What is interlink between population and resource? Explain population resource region.

c. Explain the characteristic of Indian population in the light of age and sex.

Programme : M.Sc. Geography
Semester : 4th
Course Title : Population Geography
Course Code : SEC CID 1 4 04 DCEC 2104

Session: 2016-17
Max. Time: 3 Hours
Max. Marks: 70

Note: There are total five question in this question paper and all are compulsory. Each Question carries Fourteen Marks. Maps/diagrams are required to answer.

Question no 1 has seven sub parts and students need to answer any five parts.
(Question No1) (5×2.8=14)

a. Limits to Growth
b. Law of Parson
c. Classical school of thought on population
d. Reasons of mortality in India.
e. Mercantilism theory and population
f. Migration theory-Lee
g. Sex ratio in India.

Note: Question number Two to Five have three sub parts and students need to answer any two sub part of each question. Each sub part carries seven marks.

(Question No.2) (2×7=14)

a. Elaborate the history of census of India and explain the primability to student census in India.
b. Explain the dissolvement of civil registration system in India. What are major problems with it.
c. What is Human development index? Analyse the basic parameters of HDI with reference to India.

(Question No.3) (2×7=14)
a. Critically examine the Malthusian theory on population.
b. Do you believe in demographic transition model? Put your argument in favour of your theory.
c. Explain the following terms- Optimum, under and over population

(Question No.4) (2×7=14)
a. Explain the socio-economic theory of fertility.
b. Explain the trend, cause and consequence of infant mortality in world.
c. Provide major sources of available on measuring of internal migration.

(Question No.5) (2×7=14)
a. What is population policy? Write down the basic characteristic of Indian Population Policy.
b. What is relation between population and resources? Explain population resource region. Explain the classification of Indian population in the light of above text.