B. A. (Hons) Examination 2021
Semester- V (CBCS)
Geography
Course/Paper- CC- 11
Regional Planning and Development

Time: 3 hours **Full marks 60**

Questions are of values as indicated in the right hand side margin. Attempt any three questions at least selecting one from each unit.

Unit: I
(Regional Planning and Development)

1. Elucidate the term 'region' and mention the methods for delineating a 'Region'. Discuss 'formal' and 'functional' regions. 6+14=20

2. Define 'planning region' and discuss major characteristics of 'planning region'. What do you mean by 'hierarchy of planning region'? 15+5=20

Unit: II
(Planning Regions: Issues and Challenges)

3. Mention the significance of Agro Ecological Regions (AERs). Distinguish between the AERs map of 1992 and 2015 of India by ICAR-NBSSLUP. 5+15=20

4. State the significance to introduce separate development plans for tribal communities by the Indian government. Make a critical review on the success of 'Tribal Development Block Project' of India. 8+12=20

Unit: III
(Issues on Regional Development: Theories and Practices)

5. Elucidate the model on 'stages of economic growth' propounded by W. W. Rostow. How far are you agree and disagree with his views? 16+4= 20

6. Write a note on the methodology of 'Human Development Index'. Explain cumulative causation of 'flourishing' and 'poor' regions. 10+10=20

BA (Honours Examination) 2021
Semester V (CBCS)
Geography
Paper/Course- DSE 2
Agriculture Geography

Time: 3 hours **Full Marks: 60**

Questions are of value as indicated in the margin.
Attempt any three questions selecting one from each unit.

Unit I
(CONCEPTS AND METHODS)

1. Mention the physical and technological determinants of agriculture. Discuss each of them in detail. 2+9+9=20

2. Differentiate regional and systematic approaches to the study of agricultural geography. 20

Unit II
(DETERMINANTS AND SYSTEM OF AGRICULTURE)

3. Discuss how land tenancy and size of operational holdings influence agricultural output. Write an account the farm size productivity debate in India. 10+10=20

4. Explain the bases of Whittlesey's classification of farming systems. How are these bases different from the bases upon which Kostrowicki delineated the traditional and modern farming systems of the world? Discuss any one of the agricultural systems developed by Whittlesey. 5+5+10=20

Unit III
(AGRICULTURAL REGIONS AND MANAGEMENT POLICIES)

5. What are the methods used for agricultural regionalisation? Attempt comparative analyses of the various methods used for delineating crop combination regions. 5+15=20

6. What are the most prominent features of policy making in contemporary Indian Agriculture? Discuss the schemes and programmes introduced since the year 2000 to promote agricultural performance in India. 5+15=20

B.A. (Honours) EXAMINATION 2021

SEMESTER-V

GEOGRAPHY

COURSE: DSE-1

Hydrology and Oceanography

Time 3 hours **Full Marks-60**

Questions are of value as indicated in the margin

Answer any THREE questions Selecting ONE from each Unit

Unit-I
(Fundamental Concepts)

1. What do you understand by the term *Hydrology*? Describe in brief the Basin Hydrological Phenomena with special reference to *Runoff*.

5+15=20

2. Explain *Aquifer*. Discuss the factors affecting *Runoff*.

6+14=20

Unit-II:
(Applied Hydrology)

3. What is Hydrograph? Discuss its segments and shapes.

5+15=20

4. Define Stream Rises. Discuss the classification of Stream Rises with reference to surface flow and ground water flow.

5+15=20

Unit-3
(Morphology and Properties of Ocean)

5. What are corals? Explain the favourable factors for the growth and development of the corals. Describe the spatial distribution of corals in the world.

2+10+8=20

6. Describe the topography of the Atlantic and Indian Ocean Floor. Mention the differences between the topography of the Atlantic and Pacific Ocean floor.

7+8+5=20

DEPARTMENT OF GEOGRAPHY
VIDYA BHAVANA
VISVA-BHARATI

B.A. Semester- V, Geography Practical Examination, 2021
CCI2: (Practical) Remote Sensing and GIS

Time: 4 Hours | Full Marks: 60

Questions are of values as indicated in the margin
Answer all questions

1. What is electromagnetic spectrum? Give an illustration of electromagnetic spectrum 4+6=10

2. A) Draw a frame of aerial photograph and construct fiducial marks, fiducial axis, and principal point
   B) A vertical aerial photograph was taken with a camera having 6inch focal length, with a flying height of 12000 ft above mean sea level. Calculate the scale of the aerial photograph. 4+6=10

3. Give a broad classification of Sensors and Platform. Mention the sensor characteristics of IRS P6. 6+4=10

4. Define GIS and explain the role of GIS in development of modern Cartography. 3+7=10

5. Give an outline on functioning of the various segments of GPS. What do you understand by errors of measurement? 7+3=10

6. Answer the following questions: 2X5=10

   A) Define Photo/Image interpretation

   (B) What is exposure time and exposure interval?

   (C) What is vertical air photograph?

   (D) What is trilateration?

   (E) What is NAVSTAR?

B.A. (Honours) EXAMINATION 2022
SEMESTER-V
GEOGRAPHY
COURSE: DSE-1
HYDROLOGY AND OCEANOGRAPHY

Time 3 hours **Full Marks 60**

Questions are of value as indicated in the margin
Answer any *THREE* questions Selecting *ONE* from each Unit

Unit-I
(Fundamental Concepts)

1. Define drainage basin. Discuss the Basin Hydrological Phenomena with reference to run off. 5+15=20

2. Explain the components of the Hydrological Cycle. Give an account of the human interruptions in Hydrological Cycle with suitable examples. 12+8=20

Unit-II
(Applied Hydrology)

3. What are the principles of "integrated basin management"? Explain the shape and geometrical characteristics of a river basin. 10+10=20

4. What do you understand by "stream rises"? Present a classification of stream rises as propounded by Horton. 8+12=20

Unit-III
(Morphology and Properties of Ocean)

5. Differentiate waves and tides from currents. Describe the general pattern of movement of the ocean currents of the world. 6+14=20

6. What are the salient features of the abyssal plains? Distinguish between slow and fast spreading ocean ridges. Define Salinity and mention the determinant factors of salinity. 8+4+8=20

B. A. (Hons) Examination 2022
Semester- V (CBCS)
Geography
Course/Paper- CC- 11
Regional Planning and Development

Time: 3 hours

Full marks: 60

Questions are of values as indicated in the margin.
Attempt any ***three*** *questions selecting at least* ***one from each unit.***

Unit: I
(Regional Planning and Development)

1. Define region and explain its various types. 4+16=20
2. What do you understand by Regional Planning? Critically evaluate the Growth Pole model as propounded by Perroux. 6+14=20

Unit: II
(Planning Regions: Issues and Challenges)

3. State the significance of planning regions in a country. Elaborate the approaches and strategies of Hill Area Development Programmes evolved through different five year plans in India. 5+15=20
4. What is the significance of 'Agro-ecological Regions' and 'Watershed Regions'? Illustrate the agro-ecological regions of India as per latest the modification of ICAR-NBSS&LUP. 5+15=20

Unit: III
(Issues on Regional Development: Theories and Practices)

5. Elucidate the core periphery model of regional development as propounded by John Friedman. How far do you agree and disagree with his views? 16+4= 20
6. How do the effects of 'trickle down' and 'polarization' play important role in regional development? Elucidate cumulative causation of 'flourishing' and 'poor' regions. 10+10=20

DEPARTMENT OF GEOGRAPHY
VIDYA BHAVANA
VISVA-BHARATI

B.A. Semester- V, Geography Practical Examination, 2022
CCI2: (Practical) Remote Sensing and GIS

Time: 4 Hours

Full Marks: 60

Questions are of values as indicated in the margin
Answer all questions

1. Define Remote Sensing. Briefly discuss the stages in Remote Sensing with appropriate illustrations. 2+8=10

2. (a) Draw a frame of an aerial photograph and construct fiducial marks, fiducial axes and principal point.

   (b) A vertical aerial photograph was taken with a camera having 6 inch focal length with the flying height of 6000 feet above MSL. Calculate the scale of the aerial photograph. 4+6=10

3. Prepare a land use/ land cover map of the given satellite image and interpret. 10

4. Digitize at least three land use/land cover features (vector) from the given satellite image and prepare the corresponding attribute table. Save it with proper name on Desktop. 5+5=10

5. Collect the GPS reading of the four points to form boundary of the garden given. Import the reading and save it with proper name on Desktop. 8+2=10

6. Laboratory note book and viva-voce. 5+5=10

B.A. (Honours) EXAMINATION 2022
SEMESTER-V
GEOGRAPHY
COURSE: DSE-2
AGRICULTURAL GEOGRAPHY

Time: 3 hours **Full Marks: 60**

Questions are of value as indicated in the margin
Answer any *THREE* questions Selecting *ONE* from each Unit

Unit-I
(Concepts and Methods)

1. Define the term 'Agricultural Efficiency'.Explain an appropriate method of calculating agricultural efficiency. Discuss in brief the institutional determinants of agriculture. 3+10+7=20

2. Distinguish between Land Use and Land Cover. Discuss the Land Use and Land Cover scheme of National Remote Sensing Centre (NRSC) in detail. Differentiate the Empirical and Regional approaches from Normative approach in Agriculture Geography. 4+10+6=20

Unit-II
(Determinants and Systems of Agriculture)

3. Critically discuss the Farm size and Productivity debate in agriculture. 20

4. Give an account of the commercial systems of agriculture across the world following the classification scheme put forward by Whittlesey. What are the merits and demerits of his classification? 15+5=20

Unit-III
(Agricultural Regions and Management Policies)

5. Under what circumstances was the new HYV technology introduced in India? What were the pre-requisites for the successful implementation of this technology? Assess the environmental impact of Green Revolution with special reference to Punjab. 7+7+6=20

6. What are the major challenges faced by Indian Agriculture? How do the processes of economic liberalization affect capital formation and credit supply in Indian Agriculture? 10+10=20

DEPARTMENT OF GEOGRAPHY
VIDYA-BHAVANA
VISVA-BHARATI
B.A. (Honours) Examination, 2023
B.A Semester-V (CBCS)
Course-CC-11 : Regional Planning and Development

Time: 3 hours

Full Marks: 60

Questions are of equal values as indicated in the margin

Answer any **three** questions selecting **one** from each unit

Unit- 1.0
(Concepts and Models)

1. What do you understand by the term 'region'? Write different methods of delimiting region. Elaborate the concept and methods of delineating formal and functional region. 3+3+14=20

2. Define Planning region. Discuss the major characteristics of planning region. Elucidate the meaning of Regional Planning. 2+14+4=20

Unit- 2.0
(Planning Regions: Issues and Challenges)

3. Write a brief note on the history of the planning in India. Define agro-ecological region. Elaborate the latest agro-ecological region by ICAR – NBSS-LUP- 2015. 6+2+12=20

4. Write the significance of special area development programme proposed by the Government of India. Elaborate on Border Area Development Region and Hill Area Development Region (HDR) of India. 5+15=20

Unit- 3.0
(Issues on Regional Development: Theories and Practices)

5. Elucidate the stages of economic growth identified by Rostow. Discuss the importance and limitations of take off for less developed countries. 15+5=20

6. What is the difference between economic growth and development? Explain the indicators of development with examples. 5+15=20

B.A. (Honours) EXAMINATION 2023
SEMESTER-V
GEOGRAPHY
COURSE: DSE-1
Hydrology and Oceanography

Time 3 hours **Full Marks-60**

Questions are of value as indicated in the margin
*Answer any **three** questions Selecting **one** from each Unit*

Unit-I
(Fundamental Concepts)

1. Give an account of hydrological water balance. Explain infiltration process with its controlling factors.

8+12=20

2. Elaborate the forms of groundwater. Classify saturated formations with examples. Mention the significant properties of aquifers with appropriate explanations.

5+5+10=20

Unit-II
(Applied Hydrology)

3. Describe causes, impacts and mitigation measures of draught and flood.

10+10=20

4. Discuss the elements and components of integrated basin management. Elaborate various steps involved in Rain water harvesting system and the benefits of the system.

10+10=20

Unit-3
(Morphology and Properties of Ocean)

1. Give an account of the characteristic features of the oceanic ridges and explain their origin.
2. What are corals? Explain the factors determining their locations .Briefly describe the topographic features formed by them.

10+10=20

5+10+5=20

DEPARTMENT OF GEOGRAPHY
VIDYA BHAVANA
VISVA-BHARATI

B.A. Semester- V, Geography Practical Examination, 2023
CCI2: (Practical) Remote Sensing and GIS

Time: 4 Hours | Full Marks: 60

Questions are of values as indicated in the margin
Answer all questions

1. Illustrate with a brief note on the stages of Remote Sensing. What is visible spectrum? 8+2=10

2. (a) Construct overlap from the given aerial photograph and show fiducial axis and principal point. 6

   (b) A vertical aerial photograph was taken with a camera having 4 inch focal length with a flying height of 8000 feet above MSL. Calculate the scale of the aerial photograph. 4

3. Prepare a land use/ land cover map from the given satellite image and interpret it. 8+2=10

4. Vetorize the major land use / land cover features of the given satellite image creating appropriate attribute table in GIS environment for display. 10

5. Make schematic representation of the various segments of GPS. Attempt a GPS survey incorporating the given points in the field. 4+6=10

6. Laboratory note book and viva-voce 5+5=10

B.A. (Honours) Examination, 2023
Semester V
Geography
Course- DSE- 2
(Agricultural Geography)

Time: Three hours **Full Marks: 60**

Questions are of value as indicated in the margin

*Attempt **any three** questions selecting **one** from each unit.*

Unit- 1
(Concepts and Methods)

1. Define agricultural regions and describe their attributes. Evaluate agricultural regionalisation methods and discuss any two at length. 8+12=20

2. Differentiate between land-cover and land-use. Critically discuss the land-use classifications. 6+14=20

Unit –2
(Determinants and System of Agriculture)

3. What do you understand by Land Reforms? Discuss the historical context in which Land Reforms were introduced in India. What are the various measures adopted under the Land Reforms? Discuss the regional variations of the impact of these measures on poverty alleviation and agricultural productivity in India. 3+6+3+8= 20

4. Explain with suitable examples how Traditional Agriculture might contribute towards achieving sustainability of society, economy and environment? Discuss the various cultivation-based traditional agricultural practices of India. 10+10=20

Unit – 3
(Agricultural Regions and Management Policies)

5. What do you understand by food security? Would you say that each and every Indian citizen enjoys food and nutritional security? Substantiate with suitable data and examples. 5+15= 20

6. Discuss how the broad approaches towards planning for agricultural development shifted through the Five Year Plans in India? Discuss the programmes and schemes introduced for promoting agricultural development in India since the 2000s. 8+12=20

DEPARTMENT OF GEOGRAPHY
VIDYA-BHAVANA
VISVA-BHARATI
B.A. (Honours) Examination 2024
B.A. Semester – V (CBCS)
GEOGRAPHY
Course - CC-11: Regional Planning and Development

Time: 3 hrs

Full Marks: 60

Questions are of equal value or as indicated in the margin.
Attempt any three questions selecting one from each unit.

Unit 1

Concepts and Models

1. Discuss the criteria and methods of regionalization, highlighting their importance in regional planning. 5+10+5=20
2. Critically evaluate Perroux's Growth Pole Theory in the context of regional economic development, with examples. 20

Unit 2

Planning Regions: Issues and Challenges

3. Elaborate the significance of planning in a country. Highlight the characteristics of an ideal Planning Region. 10+10=20
4. Explain the Hill Area Development Programme (HADP). Evaluate, either Assam or West Bengal, HADP as per the Tenth Plan Period Report. 10+10=20

Unit 3

Issues on Regional Development: Theories and Practices

5. Make a comparative analysis between Hirschman and Mrydal's concept of regional development. Describe the regions identified by John Friedmann in his Theory of Spatial Integration. 15+5=20
6. Write a note on the method for calculation of HDI. How far is HDI an effective measure of development? 15+5=20

DEPARTMENT OF GEOGRAPHY
VIDYA BHAVANA
VISVA-BHARATI

B.A. Semester- V, Geography Practical Examination, 2024
CC12: (Practical) Remote Sensing and GIS

Time: 4 Hours

Full Marks: 60

Questions are of values as indicated in the margin
Answer all questions

1. Define Remote Sensing. Write types of platforms in Remote Sensing. Explain overlap in aerial photograph. 2+3+5=10

2. (a) Draw a frame of an aerial photograph and construct fiducial marks, fiducial axes, principal point and flight line.

   (b) A vertical aerial photograph was taken with a camera having 6 inch focal length with the flying height of 6000 feet above MSL. Calculate the scale of the aerial photograph. 6+4=10

3. Prepare a land use/ land cover map of the given satellite image and interpret. 10

4. Prepare a 'page layout' from the given vector file reflecting of land use/land cover features and other map elements following appropriate steps. 10

5. Explain the different segments of GPS. Briefly describe the key applications of GPS in the modern world. 6+4=10

6. Laboratory note book and viva-voce. 5+5=10

BA (Honours) Examinations 2024

Semester V

Course: DSE-1

Hydrology and Oceanography

Time 3 Hours **Full Marks 60**

Questions are of value as indicated in the margin
Answer any three questions selecting one from each unit

Unit-1
(Fundamental Concepts)

1. Elaborate the factors and processes of *evapo-transpiration*. Describe the pathways of water transport in global hydrological cycle. 12+8=20

2. Bring out the concept of *systems approach* in the context of hydrological analysis. Examine the significance of anthropogenic interventions to hydrological cycle. 12+8=20

Unit-2
(Applied Hydrology)

3. Elaborate the components of a river basin. Discuss various measurement techniques of river basin. 5+15=20

4. Discuss the importance of *rain water harvesting* in tropical India. Explain the principles of *micro watershed planning*. 10+10=20

Unit-3
(Morphology and Properties of Ocean)

5. Account for the differences in the topography of the *Atlantic* and *Pacific Ocean* floors. 20

6. Give a brief account of resources available from ocean. Mention the various maritime zones as described in the international ocean laws. 10+10=20

BA (Honours) Examination, 2024
Semester V
Geography
Course- DSE 2
(Agricultural Geography)

Full Marks: 60

Time: 3 Hours

Questions are of value as indicated in the margin.
Attempt any three questions selecting one from each unit.

Unit -1
(Concept and Methods)

1. Establish how agricultural geography is a branch of human geography and shares a close association with physical geography with suitable example/s. Define agricultural regions and explain agricultural regions of India proposed by any author of your choice. 4+4+2+10=20

2. Distinguish between land use and land cover. Discuss the system of LULC classification followed in India. 4+16=20

Unit-2
(Determinants and System of Agriculture)

3. Define location rent. Discuss how location rent results in the spatial patterning of agricultural production. What are the various land-use zones as postulated by Von-Thunen around a central market? What are the modifications that he introduced later in his theory? 4+4+8+4=20

4. What are the bases of Whittlesey's classification of agricultural systems of the world? Attempt a classification of the world agricultural systems following Whittlesey. 5+15= 20

Unit -3
(Agricultural Regions and Management Policies)

5. Discuss the impact of Green Revolution with special reference to crop output, crop yield and input use. What are the shortcomings of Green Revolution? 12+8=20

6. Discuss the challenges faced by Indian agriculture with suitable data and case studies. 20