



সম্মান্য বন্দু সন্মিতি: সম্মান্য

UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Honours 5th Semester Examination, 2022

CC11-GEOGRAPHY
ENVIRONMENTAL GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

SECTION-I

1×5 = 5

1. Define any *five* of the following:
- Habitat
 - Food chain
 - Phototrophs
 - Ecological Niche
 - e-waste
 - Green Data Book
 - EIA
 - Kyoto Protocol.

SECTION-II

Answer any *three* questions of the following

5×3 = 15

- Write a short note on human-environment relationship with examples. 5
- Write a short note on the problems of Tropical Ecosystem. 5
- Discuss the characteristics of Savanna Biome. 5
- Write in short on the energy flow in ecosystem. 5
- Explain the important agenda of Earth Summit, 1992. 5

SECTION-III

Answer any *two* questions of the following

10×2 = 20

- Analyse the scope and content of Environmental Geography. 10
- Discuss in brief the Physical and Socio-cultural Components of Environment. 5+5
- Describe the influence of physical environment on the livelihood pattern of the inhabitants of Tundra Biome. 10
- Describe the characteristics of plant and animal community in the Temperate Grassland Biome. 10

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'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Honours 5th Semester Examination, 2022

CC12-GEOGRAPHY
REMOTE SENSING AND GIS

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

SECTION-I

1. Define any *five* of the following:

1×5 = 5

- Fiducial Mark
- Passive Sensor
- Swath
- NOAA
- Conjugate Principal Point
- Pixel
- Sun-synchronous Satellite
- Photogrammetry.

SECTION-II

Answer any *three* questions of the following

5×3 = 15

- Discuss briefly different components of GIS. 5
- Compare between Raster and Vector Data structure. 5
- Differentiate between Aerial Photograph and Satellite Image. 5
- Briefly discuss the role of Remote Sensing in Forest Monitoring. 5
- Classify Aerial Photograph based on Optical Axis of Camera. 5

SECTION-III

Answer any *two* questions of the following

10×2 = 20

- Describe the history and development of Remote Sensing. 10
- Discuss the EMR interaction with atmosphere and earth surface. 10
- Give an account of Spatial and Non-spatial data structures with suitable examples. 10
- Write down the application of GIS in Resource Management. 10

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‘समानो मन्त्र. समितिः समानी’

UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Honours 5th Semester Examination, 2022

DSE-P1-GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

**Students will have to choose either DSE-1A (Population Geography) OR
DSE-1B (Resource Geography)
Candidates should mention it clearly on the Answer Book.**

DSE-1A

POPULATION GEOGRAPHY

SECTION-I

1. Define any *five* questions from the following:

1×5 = 5

- (a) Snapshots of population
- (b) Sterility
- (c) Vital statistics
- (d) Demographic dividend
- (e) Primary sex-ratio
- (f) Net migration
- (g) Closed population
- (h) Pseudo unemployment.

SECTION-II

Answer any *three* questions from the following

5×3 = 15

- 2. What are the different sources of population data? Explain.
- 3. What are the major components of population growth in India in Twenty-First Century?
- 4. Briefly discuss about the physiological factors affecting fertility.
- 5. What are the different measures of migration statistics?
- 6. Explain various impacts of ageing population on economy in the developed country.

SECTION-III

Answer any *two* questions from the following

10×2 = 20

- 7. Discuss various salient features of population census in India.
- 8. Critically analyse the Malthusian Theory in Indian context.

9. Explain various measures of mortality.
10. Explain rural-urban composition of population in India.

DSE-1B

RESOURCE GEOGRAPHY

SECTION-I

1. Define any *five* terms from the following: 1×5 = 5
 - (a) Localised resource
 - (b) Deforestation
 - (c) Conventional energy
 - (d) Fund resources
 - (e) EIA
 - (f) Taiga
 - (g) Biomass energy
 - (h) Lumbering.

SECTION-II

Answer any three questions from the following

5×3 = 15

2. Write a short note on the management of water resources. 5
3. Explain the benefits of agroforestry. 5
4. Write a short note on the distribution of non-conventional energy resources in India.
5. Explain the measures of forest conservation.
6. Why sustainable development of resources is important?

SECTION-III

Answer any two questions from the following

10×2 = 20

7. What is resource? Explain the basis of classification of natural resources with suitable example. 2+8
8. Give an account on the characteristics and distribution of tropical deciduous forests. 2+8
9. Explain the role of OPEC in global trade of petroleum. Analyse the distribution pattern of petroleum in OPEC countries. 2+8
10. Give an account on the various measures of conservation of natural resources. 10

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‘সমানো মন্ত্র: সমিতি: সমানী’

UNIVERSITY OF NORTH BENGAL
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DSE-P2-GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

**Students will have to choose either DSE-2A (Urban Geography) OR
DSE-2B (Agricultural Geography)
Candidates should mention it clearly on the Answer Book.**

DSE-2A

URBAN GEOGRAPHY

SECTION-I

1. Answer any *five* questions from the following:

1×5 = 5

- Census town
- Out growths
- Urbanal renewal
- Functional city
- Administrative town
- Conurbation
- Urban Primacy
- Urban ecology.

SECTION-II

Answer any *three* questions from the following

5×3 = 15

- What is hierarchy of urban settlements? 5
- Mention various characteristics of urban hinterland. 5
- Discuss about the problems of urban agglomerations. 5
- Briefly discuss about the major urban issues of Siliguri Municipal Corporation. 5
- Write a short note on the characteristics of slums with examples. 5

SECTION-III

Answer any *two* questions from the following

10×2 = 20

- Compare and contrast between urbanisation in developed and developing countries. 10

- | | | |
|-----|--|-----|
| 8. | What are the criteria of classification of town? Give a qualitative classification of towns. | 3+7 |
| 9. | Discuss the pattern of urbanisation in India as stated by R. Ramachandran. | 10 |
| 10. | Give a detailed account on the major problems of urban centres in North Bengal. | 10 |

DSE-2B

AGRICULTURAL GEOGRAPHY

SECTION-I

1. Answer any *five* terms from the following: 1×5 = 5
- (a) Three-field system
 - (b) CADP
 - (c) Transhumance
 - (d) Dry farming
 - (e) Horticulture
 - (f) Crop productivity
 - (g) Sedentary agriculture
 - (h) ICAR.

SECTION-II

Answer any *three* questions from the following

5×3 = 15

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|----|--|---|
| 2. | Discuss the physical determinants of agriculture. | 5 |
| 3. | What are the basis of classification of agro-climatic region of India? | 5 |
| 4. | Write a short note on White Revolution in India. | 5 |
| 5. | Briefly state the relevance of Von Thunen's land use model. | 5 |
| 6. | Write a short note on shifting cultivation. | 5 |

SECTION-III

Answer any *two* questions from the following

10×2 = 20

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|-----|--|-----|
| 7. | Describe about nature and scope of Agricultural geography. | 10 |
| 8. | Divide India into Agro-ecological zones and mention their salient feature. | 10 |
| 9. | What do you understand by Blue Revolution? What are the problems faced by the Pisciculture in India? | 4+6 |
| 10. | Discuss the classification of agriculture as proposed by Whittlesey. | 10 |

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'সমানো মন্ত্র: সগিতি: সগানী'

UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Programme 5th Semester Examination, 2022

DSE1/2/3-P1-GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

Students will Choose Either DSE-1A (Disaster Management) Or DSE-1B (Sustainable Development)

DSE-1A

DISASTER MANAGEMENT

SECTION-I / বিভাগ-১ / भाग-I

1. Answer any *five* questions from the following:

1×5 = 5

নিম্নলিখিত যে-কোন পাঁচটি প্রশ্নের উত্তর দাও:

तलवाट कुनै पाँचवटा प्रश्नको उत्तर लेख्नुहोस्

Define the following terms:

নিম্নলিখিত শব্দের সংজ্ঞা দাও:

निम्न सर्तहरू परिभाषित गर्नुहोस्

(a) Hazard

দুর্যোগ

खतराहरू

(b) Drought

খরা

खडेरी

(c) Cloudburst

মেঘভাঙ্গা

बादल विस्फोट

(d) L-wave

L-তরঙ্গ

L-লহর

(e) Storm Surge

সামুদ্রিক জলচ্ছাস

আঁধী বড়দৈ

(f) Iso-seismal line

Iso-seismal রেখা

Iso-seismal রেখা

(g) NDMA

(h) Disaster Mitigation.

विपर्यय प्रशमन।

प्रकोप न्यूनीकरण।

SECTION-II / विभाग-२ / भाग-II

Answer any three questions from the following

5×3 = 15

निम्नलिखित ये-कोन तिनटि प्रश्नर उत्तर दाओ

तलवाट कुनै तीन प्रश्नको उत्तर लेख्नुहोस्।

2. Briefly distinguish between Hazard and Disaster.
दुर्योग एवं विपर्ययैर मध्ये पार्थक्य लेख।
संक्षेपमा खतरा र प्रकोपबीचको भिन्नता लेख्नुहोस्।
3. Write a short note on causes of drought.
खरार कारणगुलि लेख।
खडैरीका कारणहरूमा छोटो टिप्पणी लेख्नुहोस्।
4. Discuss the consequences of River Bank erosion.
नदीपाड ऋयैर परिणति सम्पर्के आलोचना कर।
नदी किनारको कटानका नतिजाहरूबारे छलफल गर्नुहोस्।
5. Discuss about the impact of Cyclone in India with suitable examples.
उदाहरणसह भारतते घूर्णितैर प्रभाव आलोचना कर।
उपयुक्त उदाहरणहरू सहित भारतमा चक्रवातको प्रभावको बारेमा छलफल गर्नुहोस्।
6. Discuss about the indigenous knowledge on disaster management.
दुर्योग व्यवस्थापना विषये देशीय ज्ञान सम्पर्के आलोचना कर।
विपद् व्यवस्थापनमा स्वदेशी ज्ञानको बारेमा छलफल गर्नुहोस्।

SECTION-III / विभाग-३ / भाग-III

Answer any two questions from the following

10×2 = 20

निम्नलिखित ये-कोन दुटि प्रश्नर उत्तर दाओ

कुनै दुर्घटना प्रश्नको उत्तर लेख्नुहोस्।

7. Write short notes with examples on hazard, exposure and vulnerability.
दुर्योग, प्रकटता एवं एर दुर्बलता-र उपर उदाहरणसह आलोचना कर।
जोखिमा, संक्रमण र कमजोरीमा उदाहरण सहित छोटो टिप्पणी लेख्नुहोस्।
8. Discuss the various factors and consequences of Landslide in Sikkim Himalaya.
सिक्किम हिमालये धसेर नियञ्जक ओ परिणति आलोचना कर।
सिक्किम हिमालयमा पहिरोको कारकहरू र परिणामहरूबारे छलफल गर्नुहोस्।
9. What is Epicentre? Discuss the impact and consequences of earthquake.
भूमिकम्पेर उपकेन्द्र काके बले ? भूमिकम्पेर प्रभाव ओ परिणति सम्पर्के आलोचना कर।
ऐपिसेन्टर के हो ? भू कम्पको प्रभाव र नतिजाकोबारेमा छलफल गर्नुहोस्।

2+8

10. Explain the role of NDMA in Disaster Management.
विपर्यय मोकविनाय NDMA-एर काज व्याख्या कर।
NDMA का विपद व्यवस्थापनको भूमिकाबारे लेख्नुहोस्।

DSE-1B

SUSTAINABLE DEVELOPMENT

SECTION-I / विभाग-१ / भाग-I

1. Answer any *five* questions from the following:

1×5 = 5

निम्नलिखित ये-कोन पाँचटि प्रश्नर उत्तर दाओः

कुनै पाँचवटा प्रश्नको उत्तर लेख्नुहोस्

- (a) When and who coined the term “sustainable development” for the first time?
कबे एवंग के सर्वप्रथम ‘स्थितिशील उन्नयन’ शब्दटि व्यवहार करेछिलेन ?
कहिले र कसले पहिलो पटक दिगो बिकास शब्दको प्रयोग गर्यो ?
- (b) Give the full form of PMJDY.
P.M.J.D.Y-एर सम्पूर्ण नाम / व्याख्या दाओ।
PMJDY को पूर्ण रूप दिनुहोस्।
- (c) Give the full form of UNDP.
U.N.D.P-एर पूर्णरूप लेख।
UNDP को पूर्ण रूप दिनुहोस्।
- (d) Give the full form of IPCC.
I.P.C.C-एर पूर्णरूप लेख।
IPCC को पूर्ण रूप दिनुहोस्।
- (e) How many goals are there in SDGs?
SDGs-एर मध्ये मोट कयटि लक्ष्य / उद्देश्य रयेछे ?
SDG मा कतिवटा लक्ष्यहरू छन् ?
- (f) In which year the National Environmental Policy was passed in India?
भारते कत साले जातीय परिवेश नीति गृहीत हयेछे ?
भारतमा राष्ट्रिय वातावरण नीति कुन वर्षमा पारित भएको थियो ?
- (g) Define CDM.
C.D.M कि ?
CDM परिभाषित गर्नुहोस्।
- (h) In which year was Kyoto Protocol adopted?
कत साले कियोटो प्रोटोकल गृहीत हय ?
क्योटो प्रोटोकल कुन सालमा अपनाएको थियो ?

SECTION-II / विभाग-२ / भाग-II

2. Answer any *three* questions from the following:

5×3 = 15

निम्नलिखित ये-कोन तिनटि प्रश्नर उत्तर दाओः

कुनै तीनवटा प्रश्नको उत्तर लेख्नुहोस्

- (a) Define sustainable development. Write about the primary goals of sustainable development.

2+3

- स्थितिशील उन्नयन काले बले ? स्थितिशील उन्नयनेर प्राथमिक लक्ष्यगुलि सम्पर्के लेख।
दिगो विकास परिभाषित गर्नुहोस्। दिगो विकासका प्राथमिक लक्ष्यहरूको बारेमा लेख्नुहोस्।
- (b) How human rights affect health?
मानवाधिकार किभावे स्वास्थ्यर उपर प्रभाव फेले ?
मानव अधिकारले स्वास्थ्यलाई कसरी असर गर्छ ?
- (c) Write a short note on 'Agenda 21'.
'एजेन्डा २१'-एर उपर एकटि संक्षिप्त टिका लेख।
एजेन्डा 21मा छोटो टिप्पणी लेख्नुहोस्।
- (d) What are the principles of good governance?
आदर्श शासकेर नीतिगुलि कि कि ?
सुशासनका सिद्धान्तहरू के हुन् ?
- (e) How does International Cooperation help to mitigate global warming?
विश्व उन्नयन हासे आन्तराष्ट्रिक संगठनगुलि किभावे सहायता करे वा काज करे ?
अन्तराष्ट्रिय सहयोगले पृथ्वीको तापक्रमलाई कम गर्न कसरी मद्दत गर्छ ?

SECTION-III / विभाग-३ / भाग-III

3. Answer any *two* questions from the following: 10×2 = 20
निम्नलिखित से-कान दुटि प्रश्नेर उत्तर दाओः
कुनै दुईवटा प्रश्नको उत्तर लेख्नुहोस्
- (a) Briefly explain the historical background of sustainable development. 10
स्थितिशील उन्नयनेर ऐतिहासिक प्रेक्षापट विस्तारित वर्णना कर।
दिगो विकासको ऐतिहासिक पृष्ठभूमिलाई संक्षिप्त रूपमा व्याख्या गर्नुहोस्।
- (b) What is the importance of the programme of the Millennium Development goals? 4+6
Explain the strategies to achieve Millennium Development goals.
मिलेनियाम डेभलपमेन्टेर कर्मसूचीर शुरुवा की ? मिलेनियाम डेभलपमेन्ट गोल वा लक्ष्य अर्जनेर कौशलगुलि व्याख्या कर।
सहस्राब्दी विकासका लक्ष्यहरूको कार्यक्रमको महत्त्व के हो ? यसलाई हासिल गर्ने रणनीतिहरूबारे व्याख्या गर्नुहोस्।
- (c) What is the role of higher education in sustainable development? How does 5+5
education help in climate change?
स्थितिशील उन्नयने उच्चशिक्षाका भूमिका कि ? जलवायु परिवर्तने शिक्षा किभावे सहायता करे ?
दिगो विकासमा उच्च शिक्षाको भूमिका के छ ? शिक्षाले जलवायु परिवर्तनमा कसरी मद्दत गर्छ ?
- (d) Write a brief note on the "National Environmental Policy, 2006". 10
जातीय परिवेश नीति-२००६ एर उपर विस्तारित टिका लेख।
राष्ट्रिय पर्यावरण नीति 2006 मा संक्षिप्तमा टिप्पणी लेख्नुहोस्।

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