

B.A./B.Sc. Honours 3rd Semester Examination, 2022

CC5-GEOGRAPHY (301)

MODIFIED SYLLABUS

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

SECTION-I

		SECTION-I	b.
1.		Answer any five from the following:	1×5 = 5
	(a)	Molecular Nitrogen Layer	
	(b)	Albedo	
	(c)	Condensation Nuclei	
	(d)	Dry Adiabatic Lapse Rate	
	(e)	Af Climate	
	(f)	Heat Equator	
	(g)	Specific Humidity	
	(h)	ITCZ.	
		SECTION-II	
		Answer any three questions from the following	5×3 = 15
2.		Write down the characteristics of Troposphere.	5
3.		Differentiate between ground inversion and upper air inversion with reference to various types of inversion of temperature.	5
4.		Discuss the various processes of condensation with suitable examples.	5
5.		Analyse Jet Stream Theory of Monsoon.	5
6.		How does ENSO affect the global weather phenomena?	5
0	\ {	()·)	
_1		SECTION-III	
	2	Answer any two questions from the following	$10 \times 2 = 20$
7.		What is Insolation? Describe about the factors affecting insolation.	2+8
8.		Define the term 'Precipitation Effectiveness'. Briefly discuss the process of Orographic Rainfall with special reference to "Rain Shadow Zone".	2+8
9.		Explain the basis of Koppen's scheme of classification of world climate.	10
10		Describe the mode of origin of Tropical Cyclone with suitable diagrams.	10
		x	

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B.A./B.Sc. Honours 3rd Semester Examination, 2022

CC6-GEOGRAPHY (302)

MODIFIED SYLLABUS

Full Marks: 40 Time Allotted: 2 Hours The figures in the margin indicate full marks. SECTION-I $1 \times 5 = 5$ Answer any five of the following: 1. (a) Interval Scale (b) Sampling Error (c) Data Matrix (d) Categorical Data (e) Range (f) Parametric Test (g) Co-efficient of Variation (h) Purposive Sampling. SECTION-II $5 \times 3 = 15$ Answer any three of the following Distinguish between Discrete and Continuous series of data with examples. 5 2. What is an Ordinal Scale? What are the advantages of Ordinal Scale? 1+4 3. Write a short note on Statistical Estimation. 5 4. State the merits of Statistical Sampling. 5 5. Distinguish between Correlation and Regression Analysis. 5 6. SECTION-III Answer any two questions of the following $10 \times 2 = 20$ Define Statistics. Explain the significance of Statistics in Geography. 3+7What is Primary Data? What are the different sources of primary data in 2+8 geography? What is Sample Survey? Describe the general design of Random Stratified 3+79. 3+7 What is Normal Distribution of data? Write down the procedure for Standardised 10. Normal Distribution.



B.A./B.Sc. Honours 3rd Semester Examination, 2022

CC7-GEOGRAPHY (303)

MODIFIED SYLLABUS

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

SECTION-I $1 \times 5 = 5$ Answer any five questions from the following: 1. (a) Khadar (b) Western Disturbances (c) Tertiary Coal (d) Negritos (e) Animism (f) 'Cwg' climate (g) Austric language (h) Pat land. **SECTION-II** Answer any three questions from the following $5 \times 3 = 15$ Describe the significance of the Himalayas in the Indian context. 5 2. Give an account of the cotton textile industry of Western India. 5 3. 5 Discuss the major languages spoken in India. 4. Discuss the different factors influencing natural vegetation of India. 5 5. Write a short note on the National Forest Policy of India. 5 6.

1/	SECTION-III	
-7	Answer any two questions	$10 \times 2 = 20$
7.	Describe the different agro-climatic regions of India.	10
8.	Divide India into broad physiographic divisions. Discuss about the Great Plains of India.	10
9.	What do you mean by race? Give an account of the racial distribution of India.	2+8
10.	Give a detailed account of the production and distribution of petroleum in India.	10



B.A./B.Sc. Programme 3rd Semester Examination, 2022

DSC1/2/3-P3-GEOGRAPHY (306)

REGIONAL DEVELOPMENT

MODIFIED SYLLABUS

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

SECTION-I / বিভাগ-১ / भाग-I

(b) Growth Pole

গ্রোথ পোল वृद्धि पोल (Pole)।

(c) Formal region

विधिवश् व्यक्षन औपचारिक क्षेत्र।

(d) Macro region दृर९ अक्षन विशाल क्षेत्र।

(e) Regional disparity আঞ্চলিক বৈষম্য क्षेत्रीय असमानता।

(f) Special Area Development Plans दिस्पद अत्राका উन्नग्रन পतिकन्नना विशेष क्षेत्र विकास योजनाहरू।

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- (g) Regional Planning আঞ্চলিক পরিকল্পনা क्षेत्रीय योजना।
- (h) Backward Region. অনগ্রসর অঞ্চল। দিচ্চভিएকী क्षेत्र।

SECTION-II / বিভাগ-২ / भाग-II

Answer any *three* questions from the following নিম্নলিখিত যে-কোন *তিনটি প্রশ্নে*র উত্তর দাও

कुनै तीनवटा प्रश्नको उत्तर लेख्नुहोस्

- Explain the concept of planning region.
 পরিকল্পনা অঞ্চলের ধারণা ব্যাখ্যা কর।
 योजना क्षेत्रको अवधारणाको व्याख्या गर्नुहोस्।
- Explain the causes of regional imbalance in India.
 ভারতে আঞ্চলিক ভারসাম্যহীনতার কারণগুলি ব্যাখ্যা কর।
 भारतमा क्षेत्रीय असन्तुलनका कारणहरू व्याख्या गर्नुहोस्।
- 4. Distinguish between formal and functional regions with suitable examples. উপयुक्त উদाহরণসহ বিধিবং ও কার্যকরী অঞ্চলের মধ্যে পার্থক্য লেখ। उपयुक्त उदाहरणहरूको साथ औपचारिक र कार्यात्मक क्षेत्रहरू बीच भेद गर्नुहोस्।
- 5. What are the principles of regional planning?
 आश्वामिक পितिकन्नात नीजिछान की की ?
 क्षेत्रीय योजनाको सिद्धान्त के हो ?
- Write a short note on Special Area Development Plans.

 विश्वय अव्याका উन्नग्नन পরিকল্পনার ওপর একটি সংক্ষিপ্ত টীকা লেখ।

 विशेष क्षेत्र विकास योजनाहरूमा छोटो टिप्पणी लेख्नुहोस।

5×3 = 15

5

5

5

5

5

5

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SECTION-III / বিভাগ-৩ / भाग-III

	Answer any two questions from the following	$10 \times 2 = 20$
	নিম্নলিখিত যে-কোন দুটি প্রশ্নের উত্তর দাও	1
	कुनै दुईवटा प्रश्नको उत्तर लेख्नुहोस्	13
7.	What are the methods used to deliniate the functional regions. কার্যকরী অঞ্চল নির্ধারণের পদ্ধতিগুলি আলোচনা কর।	10
	कार्यात्मक क्षेत्रहरू चित्रण गर्ने विधिहरू के हुन् ?	
8.	Elaborate the problems of functional regions. कार्यकर्ती अक्षलात সমস্যাগুলি ग्राখ্যा कत्र। कार्यात्मक क्षेत्रका समस्याहरू विस्तार गर्नुहोस्।	10
9.	Critically discuss the Growth Pole Model given by Perroux.	10
	সমালোচনামূলকভাবে Perroux-এর Growth Pole মডেলটি আলোচনা কর।	
	पेरोक्स द्वारा दिइएको विकास पोल मोडेलको आलोचनात्मक रूपमा छलफल गर्नुहोस्।	
10.	Discuss the major characteristics of backward regions.	10
	অনগ্রসর অঞ্চলের প্রধান বৈশিষ্ট্যগুলি আলোচনা কর। पिछভিएका क्षेत्रको प्रमुख बिशेषताहरूबारे चर्चा गर्नुहोस्।	



B.A./B.Sc. Honours 3rd Semester Examination, 2022

GE2-P1-GEOGRAPHY (304)

PHYSICAL GEOGRAPHY

MODIFIED SYLLABUS

Ti	Γime Allotted: 2 Hours Full		
		The figures in the margin indicate full marks.	
		SECTION-I	
1.		Answer any <i>five</i> questions from the following:	$1 \times 5 = 5$
	(a)	Chelation	1
	(b)	Knick point	1
	(c)	Inversion of relief	1
	(d)	Regolith	1
	(e)	Beni-off zone	1
	(f)	Ox-bow lake	1
	(g)	Drumlin	1
	(h)	Hanging Valley.	1
		SECTION-II	
2.		Answer any three questions from the following:	$5 \times 3 = 15$
	(a)	Write a short note on the Nebular Hypothesis regarding the origin of the earth.	5
	(b)	Write the characteristics of Igneous rocks.	5
	(c)	What is exfoliation?	5
	(d)	Write in brief the processes of glacial erosion.	5
	(e)	Distinguish between convergent and divergent plate boundaries.	5
	3 2		
	8	SECTION-III	
3.		Answer any two questions from the following:	10×2 = 20
	(a)	Discuss in detail the Continental Drift Theory with suitable diagrams.	10
		Classify sedimentary rocks according to their mode of origin with suitable	-
	(0)	diagrams.	. 10
	(c)	What is mass wasting? Classify mass wasting with suitable diagrams.	2+8
	(d)	Describe the erosional features produced by wind action in arid regions with suitable diagrams.	10

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B.A./B.Sc. Honours 3rd Semester Examination, 2022

GE2-P1-GEOGRAPHY

PHYSICAL GEOGRAPHY

OLD SYLLABUS [For students with registration session 2018-2019 to 2020-2021]

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

SECTION-I

l.		Answer any five:	1×5 = 5
	(a)	Panthalassa	
	(b)	Lithosphere	
	(c)	L-Wave	
	(d)	Metamorphic rock	
	(e)	Chemical weathering	
	(f)	Sub-duction Zone	
	(g)	Delta	
	(h)	Zeugen.	
		SECTION-II	
		Answer any three questions	5×3 = 15
2.		Write a note on Sial and Sima.	$2\frac{1}{2} + 2\frac{1}{2}$
3.		Explain the characteristic of sedimentary rocks.	
4.		What is weathering? Discuss about physical weathering.	2+3
5.		What is the difference between P-wave and L-wave?	5
6.		Critically discuss about depositional landform of wind.	
7.	1	Write a short note on Mudflow and Earthflow.	$2\frac{1}{2} + 2\frac{1}{2}$
8	Ν,	0. 4	-2 -2
	7.	SECTION-III	
7		Answer any two questions	$10 \times 2 = 20$
8.		Discuss about meaning and scope of Geographical Science.	
9.		Give a critical account of the theory of Continental Drift of Wegener's.	
10		Give a detailed account of the erosional landform produced by glacier action.	
11		Describe the causes and consequence of Weathering.	
		x	



B.A./B.Sc. Honours 3rd Semester Examination, 2022

SEC1-P1-GEOGRAPHY (305)

MODIFIED SYLLABUS

Time Allotted: 2 Hours

Full Marks: 60

The figures in the margin indicate full marks.

The question paper contains SEC1A and SEC1B.

The candidates are required to answer any one from two courses.

Candidates should mention it clearly on the Answer Book.

SEC1A

REMOTE SENSING

SECTION-I

1. Answer any four questions from the following:

 $3 \times 4 = 12$

- (a) Geo-Stationary Satellite
- (b) What is FCC?
- (c) Active Remote Sensing
- (d) Atmospheric window
- (e) Black-Body Radiation
- (f) What is irradiance?

SECTION-II

Answer any four questions from the following

 $6 \times 4 = 24$

- Write on the principles of Aerial photography.
- 3. Write in short on 'Wave Model' and its significance in Remote Sensing.
- Discuss the role of 'Shape', 'Tone' and 'Association' in Satellite image interpretation.
- Discuss different types of Spectral Reflection/Reflectance of Vegetation and Soil.
- Discuss briefly the advantages of Remote Sensing.
- Explain the role of Remote Sensing in the field of mapping.

SECTION-III

Answer any two questions from the following

 $12 \times 2 = 24$

3+3

Write in brief on the history of development of Remote Sensing in India.

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9.	Write the various processes of EMR interaction with the earth surface and atmosphere and its role in Remote Sensing.	8+4
10.	Explain the application of Remote Sensing technology in land use and land cover mapping.	6+6
11.	What is sensor? Discuss the types of Remote Sensing based on sensors and bands, with examples.	2+5+5
	SEC1B	5
	RURAL DEVELOPMENT	0/
	SECTION-I	0
1.	Answer any four questions from the following:	3×4 = 12
	(a) What are the basic elements of Rural development?	
	(b) Write on Jan Dhan Yojana.	
	(c) NABARD	
	(d) Write on Panchayat Raj System.	
	(e) Self-Help Group (SHG)	
	(f) What are the objectives of rural development?	
	SECTION-II	
2.	Answer any four questions from the following:	6×4 = 24
	(a) Discuss about MNREGA.	
	(b) Discuss the measures of level of rural development.	
	(c) Write a note on PMGSY.	
	(d) Write a note on SGSY.	
	(e) Write a note on National Agricultural Policy, 2000.	
	(f) What are the impacts of 'Panchayat Raj-System' on rural Governance?	
	SECTION-III	
3.	Answer any two questions from the following:	12×2 = 24

2

(b) Give an account of rural development policies in India to strengthen rural

(c) Give an account of the major rural development programmes in India since 1950.

(d) Write in brief about the reflection of Gandhian approach in various rural

12

12

12

12

development schemes in India.

governance.

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(a) Discuss the Lewis model of economic development.



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SEC1-P1-GEOGRAPHY (307)

MODIFIED SYLLABUS

The figures in the margin indicate full marks.

Time Allotted: 2 Hours

Full Marks: 60

The question paper contains SEC-1A and SEC-1B.

The candidates are required to answer any one from two courses.

Candidates should mention it clearly on the Answer Book.

SEC-1A

REMOTE SENSING

SECTION-I / বিভাগ-ক / भाग-I

Answer any four questions from the following:
 নিম্নলিখিত যে-কোন চারটি প্রশ্নের উত্তর দাওঃ
 কুনী ভাবেতা प्रश्नको उत्तर लेखनुहोस्:

 $3 \times 4 = 12$

- (a) Platforms প্লাটফর্ম ফৌटफर्म
- (b) LANDSAT satellite ল্যানস্যাট স্যাটেলাইট LANDSAT उपग्रह
- (c) Passive Remote Sensing Sensors निष्क्रिय पृत्र-সংবেদন সংবেদক निष्क्रिय रिमोट सेन्सिङ सेन्सरहरू
- (d) Atmospheric window বায়ুমগুলীয় গবাক্ষ वायुमण्डलीय झ्याल
- (e) Active Remote Sensing System मक्रिय पृत्र-मश्तवपन वावखा सक्रिय रिमोट सेन्सिङ प्रणाली
- (f) Nadir. नामित्र। नादिर।

SECTION-II / বিভাগ-খ / भाग-II

Answer any four questions from the following निम्नलिখिত यে-कোन *চারটি প্রশ্নের* উত্তর দাও क्नै चारवटा प्रश्नको उत्तर लेखनुहोस

 $6 \times 4 = 24$

- What is EMR? Discuss its importance in Remote Sensing. EMR कि ? मृत-সংবেদনে EMR-এत গুরুত্ব সম্পর্কে লেখ। EMR के हो ? रिमोट सेन्सिङमा यसको महत्वबारे चर्चा गर्नुहोस्।
- Differentiate between Satellite image and Aerial photograph.
 উপগ্রহ চিত্র ও বায়বীয় আলোকচিত্রের পার্থক্য বর্ণনা কর।
 उपग्रह छবি र हवाई फोटो बीचको भिन्तता लेख्नहोस।
- Explain Microwave Remote Sensing.

 ক্ষুদ্রতরঙ্গ বিশিষ্ট দ্র-সংবেদন ব্যবস্থা সম্পর্কে লেখ।

 माइक्रोवेभ रिमोट सेन्सिङको व्याख्या गर्नहोस।
- 5. What is photogrammetry? Classify photogrammetry. क्लोबासिक कारक वरल ? क्लोबासिकित ब्यंगीविजान कता फोटोग्रामेट्री के हो ? फोटोग्रामेट्री वर्गीकरण गर्नुहोस।
- 6. Explain different types of Aerial Photographs.
 विভिन्न প্रकात वाय्रवीय आत्माकिकश्चिम সম্পর্কে বর্ণনা কর।
 विभिन्न प्रकारका हवाई फोटोहरूको व्याख्या गर्नुहोस्।
- Write a short note on ISRO.
 ISRO-এর সম্পর্কে সংক্ষেপে লেখ।
 ISRO बारे छोटो टिप्पणी लेखनुहोस्।

SECTION-III / विভাগ-গ / भाग-III

Answer any two questions from the following निम्ननिथिত यে-কোন দৃটি প্রশ্নের উত্তর দাও कुनै <u>दुईवटा</u> प्रश्नको उत्तर लेखनुहोस्

 $12 \times 2 = 24$

- 8. Explain the energy interaction with earth's surface materials in Remote Sensing.

 मृत-সংবেদনে পৃথিবীপৃষ্ঠের ওপরে স্থিত বিভিন্ন পদার্থের সাথে শক্তির মিথস্ক্রিয়া সম্পর্কে বর্ণনা কর।

 रिमोट सेन्सिङमा पृथ्वीको सतह सामग्री सँङ्ग ऊर्जा अन्तरक्रियाको व्याख्या गर्नुहोस्।
- 9. Briefly discuss the applications of Remote Sensing in Land Use and Land Cover (LULC) identification.

 ज्ञित बान्हांत्र ७ ज्ञित जाम्बान्तन हिन्हिज्कतान्त जना मृत-সংবেদনে ज्ञिका जालाहना कत।

 मू-उपयोग र भूमि कभरको पहिचानमा रिमोट सेन्सिङको प्रयोगबारे छोटकरीमा लेख्नुहोस्।
- 10. What is sensor in Remote Sensing? Discuss different types of sensor's used in Remote Sensing. দূর-সংবেদনের আলোচনায় সংবেদকের সংজ্ঞা দাও। দূর-সংবেদনে ব্যবহৃত বিভিন্ন প্রকার সংবেদক সম্পর্কে বর্ণনা কর।

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रिमोट सेन्सिङमा सेन्सर के हो ? रिमोट सेन्सिङमा प्रयोग हुने विभिन्न प्रकारका सेन्सरहरूबारे छलफल गर्नुहोस्।

What are the basic elements of Image Interpretation?
দূর-সংবেদনের মাধ্যমে প্রাপ্ত বিভিন্ন প্রকার চিত্রগুলি বিশ্লেষণের জন্য প্রয়োজনীয় উপাদানগুলি কি কি,
তা বর্ণনা কর।

छवि व्याख्याको आधारभूत तत्वहरू के हो ?

SEC-1B

RURAL DEVELOPMENT

SECTION-I / विजान-क / भाग-I

- Answer any four questions from the following:
 निम्नलिशिक य-कान ठाति थात्मत छेखत माउः
 क्नै चारवटा प्रश्नको उत्तर लेख्नुहोस –
 - (a) IRDP
 - (b) Role of NGO in Rural Development. গ্রামীণ উন্নয়নে বেসরকারি সংস্থার ভূমিকা। ग्रामीण बिकासमा NGO को भूमिका।
 - (c) Jan Dhan Yojana জন ধন যোজনা जन धन योजना
 - (d) NRHM
 - (e) MGNREGA
 - (f) Rural Connectivity. গ্রামীণ সংযোগ। ग्रामीण जडान

SECTION-II / বিভাগ-খ / भाग-II

Answer any four questions from the following निम्निविश्व य-कान ठात्रि क्षस्त्रत छेखत माउ कुनै <u>चारवटा</u> प्रश्नको उत्तर लेख्नुहोस

 $6 \times 4 = 24$

- How does SHG support Rural Development?
 किভाবে স্বনির্ভর গোষ্ঠীগুলি গ্রামীণ উন্নয়নের সহায়ক হয়েছে?
 SHG ले ग्रामीण विकाशलाई कसरी समर्थन/सहयोग गर्दछ?
- What are the main aims and objectives of PMGSY?
 PMGSY-त्र श्रिशन श्रिशन लका ७ छिक्तमा छनि जालान्ना कत्र।
 PMGSY का मुख्य लक्ष्य र उद्देश्य के के हुन् / हुँन ?

- 4. Explain in detail the various indicators of Rural Development.
 श्वाभी उन्नय्यास्त्र विजिन्न निर्मिश्यक्षी मुन्नर् विखातिज वर्गना कत्र।
 ग्रामीण विकाशका विभिन्न संकेतकहरूबारे छलफल विवरण गर्नुहोस्।
- 5. Discuss the status of Rural Development in Post-independent India. স্বাধীনতা-পরবর্তী ভারতে গ্রামীণ উন্নয়নের অবস্থা আলোচনা কর। स्वतन्त्र भारतमा ग्रामीण विकासको स्थितिबारे छलफल गर्नुहोस्।
- 7. How poverty and illiteracy hinder the growth of rural area?

 मातिष्ठा ও অশিক্ষা কিভাবে গ্রামীণ এলাকার উন্নতি বৃদ্ধিতে বাধা দান করে ?

 गरिबी र अशिक्षाले ग्रामीण क्षेत्रको विकासलाई कसरी बाधा पू-याँउछ ?

SECTION-III / विভाগ-গ / भाग-III

Answer any two questions from the following নিম্নলিখিত যে-কোন দুটি প্রশ্নের উত্তর দাও কুনী বুর্র্বিতা प्रश्नको उत्तर लेख्नुहोस

 $12 \times 2 = 24$

- Write about the implementation of SGSY in India.
 ভারতে SGSY-এর বাস্তবায়ন সম্পর্কে লেখ।
 भारतमा SGSY को कार्यान्वयन बारे लेख्नुहोस्।
- 9. Discuss the Lewis Model of economic development with unlimited supplies of labour.

 শ্রমিকের সীমাহীন যোগানের সাপেক্ষে লুইস প্রদন্ত অর্থনৈতিক উন্নয়নের মডেলটি আলোচনা কর।

 आর্থিক বিকাस सह প্রদকা असीमित आपूर्तिको साथ लुइस् मोडेलबारे छलफल गर्नुहोस्।
- 10. Discuss the social and cultural barriers for Rural Development.

 थाभी जन्मग्रात्न प्रभाष्टिक उ भाश्कृष्ठिक वांधार्थान मन्पर्क जात्नाग्ना कत।

 ग्रामीण विकाशका सामाजिक र सांस्कृतिक अवरोधहरूबारे टिप्पणी गर्नुहोस्।
- 11. Write about the Rural Development policy implementation in the fourth and fifth 'Five Year Plan' periods in India.

 ভाরতের চতুর্থ এবং পঞ্চম 'পঞ্চবার্ধিকী পরিকল্পনা'-য় প্রামীণ উন্নয়নের নীতিগুলির বাস্তবায়ন সম্পর্কে আলোচনা কর।

 भारतमा चौथो अनि पाँचौ (पँच) पँचाय वर्षीय योजना अविधमा ग्रामीण बिकास नीति कार्यान्ययनको बारेमा लेखनुहोस्।

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