

B.A./B.Sc. Honours 3rd Semester Examination, 2019

CC5-GEOGRAPHY (305)

CLIMATOLOGY

Full Marks: 40

Time Allotted: 2 Hours

The figures in the margin indicate full marks.

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Candidates should answer in their own words and adhere to the word limit as practicable.

SECTION-I

į,		Answer any five questions from the following:	1×5 = 5
	(a)	Environmental Lapse Rate (E.L.R)	
		Solar Wind	
		G layer of atmosphere	
	200	Albedo	
	100000	Buys Ballot Law	
	(f)	Noctilucent cloud	
	(g)	Dew Point	
	(h)	MONEX.	
		SECTION-II	
		Answer any three questions from the following:	5×3 = 15
2.	6	Answer any three questions from the later and relative humidity.	5
	(a)	Differentiate between absolute humidity and relative humidity.	5
	(b)	What are the salient features of the Indian monsoon? Give a brief account of factors controlling horizontal distribution of temperature	5
	(c)	Give a brief account of factors controlling northernal distribution on earth.	
	V.IV	Explain the mode of origin of tropical cyclones with suitable diagrams.	3
	(a)	Classify fogs according to their physical characteristics.	3
	(e)	Classify logs according to used property	
		SECTION-III	
1	V.	Answer any two questions from the following:	$10 \times 2 = 2$
3.	7.	Give a detailed account of the pressure belts and wind belts of the earth.	1
V	(a)	Give an account of the life cycle of an extra-tropical cyclone with suitable	1
	(b)		
	(0)	diagrams. Define inversion of temperature and give an account of types of temperature	1
		inversion	
	(d)	Divide the earth into different climatic regions according to the scheme suggested by Koppen.	,



B.A./B.Sc. Honours 3rd Semester Examination, 2019

CC6-GEOGRAPHY (306)

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks

Candidates should answer in their own words and adhere to the word limit as practicable.

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		SECTION-I	
1		Answer any five questions from the following:	$1 \times 5 = 5$
	(a)	Sample space	
	(b)	GDM	
	(c)	Variance	
	(d)	Universe	
	(e)	Discrete variable	
	(f)	Continuous series	
	(g)	Attribute	
	(h)	Correlation co-efficient.	
		SECTION-II	
2.		Attempt any three questions from the following:	5×3 = 15
	(a)	What is the significance of statistics in geography?	5
	(b)	Define probability and give a real life example involving probability.	5
	(c)	Differentiate between uniform distribution and normal distribution.	5
	(d)	What are the fundamental principles of sampling?	5
	(e)	Explain the term 'bias' in sample survey. How can bias be eliminated?	5
9	(SECTION-III	
99	7 .	Answer any two questions from the following:	$10 \times 2 = 20$
•	(a)	Define measurement. Make a classification of scales of measurements with examples	2+8 = 10
	(b)	Define geographical data matrix. What are the different types of geographical data matrix?	2+8 = 10
	(c)	Explain the term sampling. Discuss random and stratified sampling.	2+8=10
	(d)	What are the sources of data for geographers? Explain with examples.	10

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B.A./B.Sc. Honours 3rd Semester Examination, 2019

CC7-GEOGRAPHY (307)

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

SECTION-I

1.		Answer any five questions from the following:	$1 \times 5 = 5$
	(a)	Main Boundary Thrust (MBT)	
		Northern Sarkars	
	(c)	Duns	
	(d)	Western Disturbances	
	(e)	Scheduled Caste (SC)	
	(f)	Social Forestry	
	(g)	Khari boli	
	(h)	BSNL.	
		69	
		SECTION-II	
2.		Answer any three questions from the following:	$5 \times 3 = 15$
	(a)	Give a brief account of the salient features of Lower Ganga Plain.	5
	(b)	Write a short account on the influence of Southern Oscillations on monsoons in India.	5
	(c)	Give a short account on the distribution of tropical deciduous forests in India.	5
	(d)	Write a note on the effects of Green Revolution on production of rice in India.	5
	(e)	Give a short account on the distribution of major language groups in India.	5
		SECTION-III	
3.	1	Answer any two questions from the following:	10×2 = 20
1	(a)	Give an account of the major soil groups of India. Mention the areas where they are found.	10
	(b)	What is the basis of physiographic regionalisation of India, as suggested by R.L. Singh? Mention the names of the physiographic zones.	10
	(c)	Give an account of the development of automobile industry in India. What are the future prospects of this industry?	10
	(d)	What is the basis of agricultural regionalization in India? Divide India into different agricultural regions and state their respective locations.	10



B.A./B.Sc. Honours/Programme 3rd Semester Examination, 2019

SEC1-GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 60

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

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

রিমোট সেকিং

रिमोट सेन्सीइ

SECTION-I / विज्ञांश-क / भाग-।

Answer any four questions from the following:

 $3 \times 4 = 12$

- নিম্নলিখিত যে-কোনো *চারটি প্রশ্নের* উত্তর দাওঃ
- कुनै <u>चारवटा</u> प्रश्नको उत्तर लेख्नुहोस्
- (i) Photogrammetry

करों।थारमधि

फोटोग्राममेट्री

- (ii) Spatial resolution
 - স্থানিক রেজলিউশন

स्थानिक समाधान

- (iii) EMR
- (iv) Atmospheric Window

আবহিক জানালা

वायुगंडलीय विन्डो

- (v) IRS
- (vi) FCC.

SECTION-II / বিভাগ-খ / গাग-II

2.	Answer any <i>four</i> questions from the following: নিম্নলিখিত যে-কোনো <i>চারটি</i> প্রশ্নের উত্তর দাওঃ	6×4 = 24
	क्नै चारवटा प्रश्नको उत्तर लेखनुहोस् :	
(i)	Define remote sensing. What are the advantages of remote sensing? রিমোট সেশিং কাকে বলে ? এর ব্যবহারের সুবিধাগুলি লেখ।	2+4
	रिमोट सेन्सिक परिभाषित गर्नुहोस्। रिमोट सेन्सिक का फायदाहरू के के हुन् ?	
(ii)	Write a short note on Visual Image Analysis (VIA).	6
	Visual Image Analysis (VIA) সম্পর্কে সংক্ষিপ্ত টিকা লেখ। दूश्य छवि विश्लेषणकाबारे एउटा छोटो नोट लेखनुहोस्।	0
(iii)	Discuss different types of platforms used in remote sensing. রিমোট সেশিং-এ ব্যবহৃত বিভিন্ন প্লাটফর্ম সম্পর্কে আলোচনা কর।	O 6
	रिमोट सेन्सिङ्गमा प्रयोग हुने विभिन्न प्रकारका प्लेटफार्मवारे छलफल गर्नुहोस्।	
(iv)	Differentiate between the Sun-synchronous and Geo-synchronous satellites. Sun-synchronous ও Geo-synchronous কৃত্রিম উপশ্রহের মধ্যে পার্থকা লেখ। सूर्य सिंकोनस र भू सिंकोनस उपग्रह बीच भिन्नता लेखनुहोस्।	6
(v)	Elaborate the techniques of supervised image classification in remote sensing. রিমেট সেশিং-এ Supervised Image Classification -এর কৌশলগুলি আলোচনা কর।	6
	रिमोट सेन्सिङ्गमा पर्यवेक्षित छवि वर्गीकरणका प्रविधि विस्तृत गर्नुहोस्।	2
(vi)	Give an account of the development of satellite remote sensing in India. ভারতে উপগ্রাহিক রিমোট সেক্ষিং-এর বিকাশ সম্পর্কে লেখ।	6
	भारतमा उपग्रह रिमोट सेन्सिङ्गका विकासको वर्णन गर्नुहोस्।	
	SECTION-III / বিভাগ-গ / भाग-III	
3.	Answer any two questions from the following: निम्ननिश्चित स-कारना मृष्टि श्वरम् अख्य माधः कुनै दुईयटा प्रश्नको उत्तर लेखनुहोस् :	12×2 = 24
/ix	Discuss the applicability of remote sensing in Landuse-Landcover mapping.	12
(0)	রিমোট সেপিং-এ ভূমির ব্যবহার ও ভূ-আচ্ছাদন এর প্রয়োগযোগ্যতা সম্পর্কে লেখ।	167
	भूमि प्रयोग-भूमि कभर नक्शा रिमोट सेन्सिङ्गको लागू योग्यतावारे छलफल गर्नुहोस्।	o commence
(ii)	What is Digital Image Processing? Discuss briefly the Radiometric and Geometric correction of pre-processing in remote sensing.	
10	Digital Image Processing বলতে কি বোঝ ? Radiometric ও Geometric Correction সম্পর্কে সংক্ষেপে লেখ।	
	डिजिटल छवि प्रसंस्करण के हो ? दूर संवेदनमा पूर्व प्रसंस्करणको रेडियोमेट्रिक र ज्योमेट्रिक सूधारको लागी संक्षिप्तमा छलफल गर्नुहोस्।	X
(iii)	What are the importance of sensors? Write a note on EMR interaction with atmosphere and the earth surface.	4+8
	Sensors-র গুরুত্ব লেখ। বায়ুমণ্ডল ও ভূপৃষ্ঠের সঙ্গে EMR-র পারস্পরিক ক্রিয়া আলোচনা কর।	

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सेन्सरको महत्त्व के हो ? वातावरण र पृथ्वीको सतहको साथ EMR अन्तर्क्रियामा टिप्पणी दिनुहोस्।

(iv) Discuss the processes of Satellite Image Interpretation. Satellite Image Interpretation-এর প্রক্রিয়াগুলি আলোচনা কর। उपग्रह छवि व्याख्या प्रक्रियाबारे छलफल गर्नुहोस।

12

 $3 \times 4 = 12$

SEC1B RURAL DEVELOPMENT

क्षश्रीण विकास ग्रामीण विकास

SECTION-I / বিভাগ-ক / भाग-I

- Answer any four questions from the following: निव्ननिषिठ य-कारना ठांत्रि थायत छेखन मांधः कुनै <u>चारवटा</u> प्रश्नको उत्तर लेखनुहोस् :
 - (i) Sustainable rural development
 সুস্থায়ী প্রামীণ উলয়ন
 বিगो ग्रामीण विकास
 - (ii) Rural connectivity প্রামীণ যোগাযোগ ग्रामीण जडान
 - (iii) JDY
 - (iv) Target group টার্জেট গোষ্ঠী লঞ্জিন समूह
 - (v) Community Development Programme क्षिडिनिष्ठि (छाडिनश्रास्ट ख्राक्षाप सामुदायिक विकास कार्यक्रम
 - (vi) IRDP.

SECTION-II / विভाগ-थ / भाग-II

Answer any four questions from the following:

 $6 \times 4 = 24$

নিম্নলিখিত যে-কোনো *চারটি* প্রশ্নের উত্তর দাওঃ

कुनै <u>चारवटा</u> प्रश्नको उत्तर लेख्नुहोस् ः

(i) Give a brief account on the basic elements required for rural development.

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थाभीन উन्नयत्नत्र भून উপामानश्रमि मन्नदर्क (नर्य। ग्रामीण विकासको लागी आधारभूत तत्वहरूबारे संक्षिप्तमा लेखनुहोस्।

(ii)	Discuss the values and promises of the Gandhian Model of rural development. আর্মীণ উন্নয়নে গান্ধীয় মডেলের মান ও প্রতিশ্রুতিগুলি সম্পর্কে আলোচনা কর।	6
	ग्रामीण विकासको गान्धीवादी मोडेलको मूल्य र वाचाबारे छलफल गर्नुहोस्।	
(iii)	Discuss the measures taken for the rural development in drought prone areas. খরা প্রবণ অঞ্চলে গ্রামীণ উন্নয়নের জন্য গৃহীত ব্যবস্থাগুলি কী কী ?	6
	खडेरीमा परेको क्षेत्रहरूमा ग्रामीण विकासका लागी गरिएका उपायहरूबारे छलफल गर्नुहोस्।	
(iv)	Write a short note on 'SJSY',	6
	'SJSY' সম্পর্কে সংক্ষিপ্ত টীকা লেখ।	1
	SJSY मा एक छोटो नोट लेख्नुहोस्।	4
(v)	Elaborate the major rural development policies of India after Independence. স্বাধীনতা পরবর্তীকালে ভারতে গ্রামীণ উন্নয়নে গৃহীত নীতিগুলি সম্পর্কে লেখ।	. 6
	स्वतन्त्र भए पछि भारतको प्रमुख ग्रामीण विकास नीतिको विस्तृत वर्णन गर्नुहोस्।	65
(vi)	Evaluate the role of PMGSY in rural development.	6
	গ্রামীণ বিকাশে PMGSY-র অবদান লেখ।	
	ग्रामीण विकासमा PMGSY को भूमिकाबारे विस्तार गर्नुहोस्।	
	SECTION-III / বিভাগ-গ / भाग-III	
3.	Answer any two questions from the following:	$12 \times 2 = 24$
	নিম্নলিখিত যে-কোনো <i>দৃটি প্র</i> ণ্ডের উত্তর দাওঃ	
	कुनै दुईवटा प्रश्नको उत्तर लेख्नुहोस् :	
(i)	Discuss the various measures of level of rural development in India.	12
9.5	ভারতে গ্রামীণ বিকাশ স্তর নির্ধারণের বিভিন্ন মাত্রাগুলি লেখ।	
	भारतमा ग्रामीण विकासको स्तरका विभिन्न उपायहरूबारे छलफल गर्नुहोस्।	
(ii)	Critically discuss the Lewis model of economic development.	12
	অর্থনৈতিক উন্নয়নের নিরীখে লিউস্ মডেলের সম্পর্কে সমালোচনা কর।	
	आर्थिक विकासको लुईस मोडेलको आलोचनात्मक रूपमा छलफल गर्नुहोस्।	
(iii)	Explain the impact of MNREGA on economy and livelihood security in rural areas of India.	12
^	ভারতের গ্রামীণ অঞ্চলে MNREGA-র প্রভাব কিভাবে সেখানকার জনজীবন ও অর্থনীতিতে পরিলক্ষিত হয় ?	
1.0	भारतको ग्रामीण क्षेत्रमा आर्थिक र आजीविका सुरक्षमा MNREGA को प्रभाव वर्णन गर्नुहोस्।	
(iv)	Evaluate the Panchayati Raj System as rural governance in India.	12
3005	ভারতের গ্রামীণ শাসন ব্যবস্থায় পঞ্চায়েতি রাজ ব্যবস্থার ভূমিকা মূল্যায়ন কর।	
	पंचायती राज प्रणालीलाई भारतमा ग्रामीण शासनको रूपमा मूल्याङ्कन गर्नुहोस्।	

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