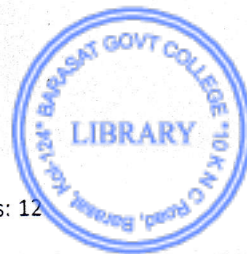


Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester I Honours
Paper: GEOACOR02P – Cartographic Techniques



Date: 28.11.2022

Examination Time: 1hr.

Total Marks: 12

The figures in the margin indicate full marks.

- | | |
|--|-----|
| 3. Define R.F. What are its advantages over statement scale? | 1+1 |
| 4. Draw a linear scale to show 100 miles in primary division and 20 miles in secondary division when the map scale is 1 inch to 92 miles. Calculate the R.F. | 10 |

Internal assessment
Semester –I
GEOACOR02P

full marks- 12

Time :1hr

6x2=12

Answer the following questions.

1. Draw a superimposed profile from the mentioned area.
2. Draw a transect chart and show the relationship between river, roads and settlement.

DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE

INTERNAL ASSESSMENT/ SEM-1/ PAPER- GEOACOR02T/ FM- 17/Time- 45 min

Answer all questions.

- | | |
|---|--------|
| 1. Calculate the length of the equator and 45° S parallel on the Polar Zenithal Stereographic Projection with scale 1:155,000,000. Calculate the Tangential Scale on Mercator's Projection along 55° N parallel when the R.F. is $1:75 \times 10^6$. | 5+5=10 |
| 2. Prove that the radius of any parallel in Polar Zenithal stereographic Projection is $2R \tan((90^{\circ}-\phi)/2)$. | 5 |
| 3. Define Radial Scale and Tangential scale. | 2 |

Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester I Honours
Paper: GEOACOR02T – Cartographic Techniques

Date: 19.12.2022

Examination Time: 1hr.

Total Marks: 17

The figures in the margin indicate full marks.

- | | |
|--|-------|
| 1. Compare large-scale and small-scale maps. | 2 |
| 2. Write down the utilities of UTM projection in geographical studies. If the geographical coordinate of the place MC is $19^{\circ} 25' 57.36''$ N and $99^{\circ} 7' 59.52''$ W, determine its UTM grid. | 3+2 |
| 3. What do you understand by a coordinate system? If the cartesian coordinate of two points A and B are 2, 3 and 5, 9 respectively then, what will be the distance between A and B in polar coordinate | 2+6+2 |



1

DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE
INTERNAL ASSESSMENT/ SEM-1/ PAPER- GEOACOR02T/ FM- 17/Time- 45 min

Answer all questions.

1. Calculate the length of the equator and 45° S parallel on the Polar Zenithal Stereographic Projection with scale 1:155,000,000. Calculate the Tangential Scale on Mercator's Projection along 55° N parallel when the RF is 1: 75X10⁶. 5+5=10
2. Prove that the radius of any parallel in Polar Zenithal stereographic Projection is $2R \tan((90^{\circ}-\phi)/2)$. 5
3. Define Radial Scale and Tangential scale. 2

1

Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester I Honours
Paper: GEOACOR01T – Geotectonics and Geomorphology

Date: 14.12.2021

Examination Time: 1 hr.

Total Marks: 17

The figures in the margin indicate full marks.

Answer the following question within 600 words

1. What is meant by Aeolian process? What are the suitable factors required for aeolian landform development? Briefly discuss about the major erosional landforms developed by aeolian activities. 2+2+6

Answer the following question within 150 words

2. Define trio of Davis. 5

Answer the following question within 50 words

3. Differentiate between Seif and Barchan. 2

Barasat Government College
Department of Geography
Internal assessment
Semester –I
GEOACOR02P

Time :1hr

full marks- 12

Answer the following questions.

6x2=12

1. Draw a superimposed profile from the mentioned area.
2. Draw a transect chart and show the relationship between river, roads and settlement.

C2P

DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE
1st Sem- Paper Cor 2P- Full Marks -12- Date: 15.11.2019



- 1-2P 15.11.19
1. What would be the R.F. of the map if 30 sq cm area on the map represents 630 sq. Km on the ground. 3
 2. The circumference of a circular ground is 40.5 cm on the map which represents 3.76 km on the ground. Calculate the R.F. 3
 3. Draw a linear scale showing yard in Primary division and foot in secondary division respectively when R.F is 1: 50 6

B.Sc FIRST SEMESTER HONS. INTERNAL EXAMINATION, 2019
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-II THEORY

FULL MARKS: 17

Answer the following questions:

TIME: 50 MINUTES

1. What is projection? Explain the properties of projection.
2. Classify projection on the basis of developable surface.
3. What is scale factor?

2+8=10

5

2

Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester I Honours
Paper: CORE 2T CONCEPT AND APPLICATION OF SCALES

Date: 19.11.2019

Time: 1 hr.

Total Marks: 17

- (3800) 1000 1000 1000
1. What is the full form of R.F? 2
 2. What is the utility of scale in a map? Discuss with example. 5
 3. What do you mean by comparative scale? Briefly discuss about its advantages over plain scale. 10
- 2000 + 2000 1000
- 1000.1
- 1000.1
- 2000.0

B.A./ B.SC. FIRST SEMESTAR INTERNAL EXAMINATION, 2018
BARASAT GOVT. COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-I PRACTICAL



TIME: 1 HOURS.

FULL MARKS: 12

1. Draw a geological cross section of the given map and interpret the map in the following heads
7+3+2=12
 - a. Geological structure
 - b. Geological history

B.A./B.SC. FIRST SEMESTAR INTERNAL EXAMINATION, 2018
BARASAT GOVT. COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-II THEORY

TIME: 1 HOURS.

FULL MARKS: 17

Category-I

10x1=10

Answer the following question:

1. What is projection? What are the properties of projection? Classify projection based on the source of light. 2+4+4=10
2. What is R.F.? Write the advantages and disadvantages of using R.F.? Perimeter of a square ground is 1408 metre. Calculate the R.F. one side of the ground is measured 1.60 cm. 1+4+5=10

Category-II

5x1=5

Answer any one question:

3. Prove mathematically that radius of any parallel is $R \cos \phi$.
4. Write the advantages and disadvantages of comparative scale.

Category-III

2x1=2

Answer any one question:

5. What is a developable surface?
- What is scale factor?



BARASAT GOVT COLLEGE
DEPT. OF GEOGRAPHY

Sem-I

Paper:1T

FM:08

Time:30 Min

1. Distinguish between Granite and Basalt on the basis of mineral composition and texture.
Or
Classify and define different types of channel bar. 5
2. What do you mean by inner flood plain.
Or
Mention the stages following 'Extreme Events'. 3

B.Sc 1st SEMESTER HONS. INTERNAL EXAMINATION, 2023
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOADS01T – Physical Geography

FULL MARKS: 20

TIME: 1 Hrs.

Answer the *following* question (within 600 words):

10x1=10

1. Describe with suitable sketches the formation and life cycle of a Jet stream.

5+5=10

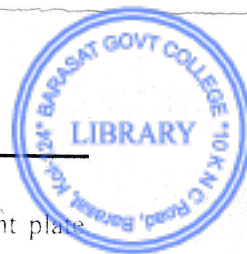
Answer any *two* questions from the following (within 150 words):

5x2=10

2. Describe the stages of soil formation after Mohr and Van Baren.

3. Illustrate how temperature decreases from earth's surface towards the core.

BARASAT GOVT. COLLEGE/DEPT. OF GEOGRAPHY
Sem 1 Internal / GEOACOR01T/ 15 marks/one hour



1. How is a seismograph used to study the interior of the Earth? 5
2. Describe the origin and development of landforms formed at ocean-continent convergent plate boundaries. 10

Internal Examination Sem 1 Paper:01T Full marks:08

1. Describe the mechanism of 'Inverse of Relief' with suitable diagram. 5
Or

Discuss the evolution of land forms in uniclinal structure on 2nd cycle of erosion.

2. Write the mechanism of 'Tor'. 3
Or

Distinguish between granite and basalt on the basis of grain size and land forms.

B.Sc. 1st SEMESTER HONS. INTERNAL EXAMINATION, 2022

BARASAT GOVERNMENT COLLEGE

DEPARTMENT OF GEOGRAPHY

GEOACOR01P- Geotectonics and geomorphology

TIME: 1 Hrs.

FULL MARKS: 12

1. Draw a section along the given line on the geological map showing the stratigraphy and interpret it under the following heads.

- (a) Geological succession
(b) Geological history

7+3+2=12



Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester III General
Paper: CORE 2T CONCEPT OF MAP SCALE

Date: 08.11.2019

Time: 1 hr.

Total Marks: 17

- | | |
|--|----|
| 1. What are the various types of scale? | 2 |
| 2. Write three advantages and three disadvantages of statement scale. | 5 |
| 3. Express R.F 1:800000 into statement scale in both CGS and FPS method. | 10 |

Internal Examination Sem 1 Paper:01T Full marks:08

- | | |
|---|---|
| 1. Describe the mechanism of 'Inverse of Relief' with suitable diagram. | 5 |
|---|---|

Or

Discuss the evolution of land forms in uniclinal structure on 2nd cycle of erosion.

- | | |
|----------------------------------|---|
| 2. Write the mechanism of 'Tor'. | 3 |
|----------------------------------|---|

Or

Distinguish between granite and basalt on the basis of grain size and land forms.

B.SC. FIRST SEMESTAR GENERAL ELECTIVE INTERNAL EXAMINATION, 2018
BARASAT GOVT. COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-I THEORY

FULL MARKS: 21

Category-I

TIME: 1 HOURS.

Answer any one of the following questions:

- | | |
|--|---------|
| 1. What is normal lapse rate of temperature? Discuss about the different types of inversion. | 10x1=10 |
| 2. Critically discuss the climatic classification of Koppen. | 3+7=10 |
| | 10 |

Category-II

Answer any one of the following questions:

- | | |
|---|-------|
| 3. Discuss the factors affecting insolation. | 5x1=5 |
| 4. Discuss briefly the temperature condition of the earth during January. | |

Category-III

Write short note on any three of the following

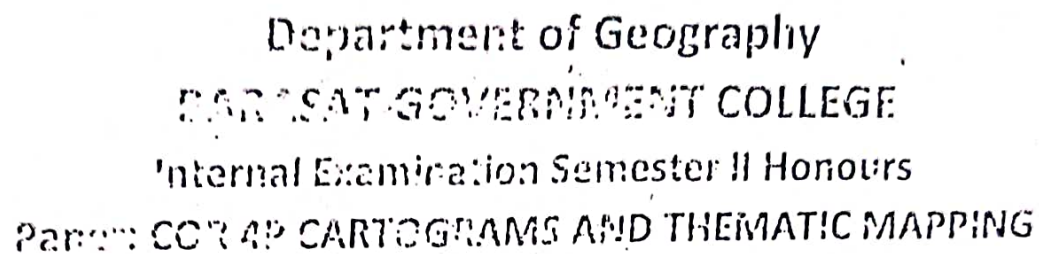
- | | |
|-----------------------|-------|
| 5. Isotherm | 2x3=6 |
| 6. Atmospheric window | |
| 7. Adiabatic process | |
| 8. Albedo | |



DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE

2th Sem- Paper Cor 4P- Full Marks -12- Date: 07.03.2020

1. A Dumpy Level survey has been conducted across the river basin. For this MN line has been selected across the river. M is situated on the left bank of the river and N is on the right bank of the river. Staff readings of M and N have been recorded as 1.57m. and 1.49 m respectively. After M point, eight consecutive points have been selected for obtaining staff readings to reach N point. These readings were 2.30m, 2.45m, 2.20m, 2.15m, 2.35m, 2.30m, 2.85m and 2.45m. All points are located at 5 m interval. BM of the point for which staff reading has been taken situated on the right bank of the river was 11.58m. Find out RL values of points in tabular format after calculating CI values.



Total Marks: 12

1. What do you mean by thematic maps? 2
2. Prepare a thematic map to represent the following data suitably. 10

C. D. Block	Total Population	Area (Km ²)
Rajganj	373776	613.96
Mal	299556	546.00
Matiali	117540	54.88
Maynaguri	329032	613.00
Jalpaiguri	323445	494.56



B.Sc. 2nd SEMESTER HONS. INTERNAL EXAMINATION, 2022-23
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOACOR04T – Cartograms and Thematic Mapping

FULL MARKS: 20

TIME: 1 hrs.

Answer any *one* of the following questions:

10x1=10

1. What is surveying? What is main source of error in prismatic survey? What are the different methods for plotting the prismatic compass survey?

2+4+4

2. What is mantissa? Differentiate between natural and log scale. What are the rules of logarithm?

2+3+5

Answer any *one* of the following questions:

5x2=10

3. Explain methods of rounding with proper example.

4. a) If $\log 2 = 0.3010$, find the value of $\log_5 512$.

b) If $\log_{10} 7 = a$, then $\log_{10} \left(\frac{1}{70}\right)$ is equal to what?



B. SC|2nd SEMESTER HONS. INTERNAL EXAMINATION, 2022-23
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOACOR04P – Cartograms and Thematic Mapping

FULL MARKS: 12

TIME: 1 hrs.

Answer the following questions:

OPTION 1. The following tables represents the forward and backward bearings of a closed traverse survey. Plot the data after proper correction.

6+6

Line	AB	BC	CD	DE	EA
FB	191°45'	39°30'	22°15'	242°54'	330°15'
BB	13°0'	222°30'	220°30'	62°45'	147°15'

OR

OPTION 2. The following consecutive readings were taken along a line XY with a dumpy level at interval of 6 m. Change points of instrument where at 4th and 8th points benchmark (BM) at 3rd point is 20m. Prepare a field book and calculate the reduced level. Draw a profile on the basis of the reduced levels. 6+6

<i>Staff Readings in metre</i>									
3.00	2.77	2.69	2.59						
			3.12	3.33	2.58	2.11	1.98		
							1.00	0.85	1.02



7

B.Sc. Geography Semester-II, 2022-23
Barasat Government College
Human Geography (3T)

Time: 1 hour

Full Marks: 20

- | | |
|--|----|
| 1. Write any five physiological characteristics of 'Negroid' race group. | 10 |
| 2. Classify 'Landscape' with suitable examples. | 5 |
| 3. Define 'Environmental Determinism'. | 3 |
| 4. What do you mean by absolute space? | 2 |



B.Sc 2nd SEMESTER HONS. INTERNAL EXAMINATION, 2023
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOACOR04P – Cartograms and Thematic Mapping

FULL MARKS: 12

TIME: 1 hrs.

Answer the following questions:

OPTION 1. The following tables represents the forward and backward bearings of a closed traverse survey. Plot the data after proper correction. 6+6

Line	PQ	QR	RS	SP
Ground distance in m.	68	55	74	46
FB	72°30'	158°00'	258°30'	343°00'
BB	252°00'	337°00'	78°00'	164°00'

OR

OPTION 2. The following consecutive readings were taken along a line XY with a dumpy level at interval of 6 m. Change points of instrument where at 4th and 8th points benchmark (BM) at 3rd point is 20m. Prepare a field book and calculate the reduced level. Draw a profile on the basis of the reduced levels. 6+6

<i>Staff Readings in metre</i>									
3.00	2.77	2.69	2.59						
			3.12	3.33	2.58	2.11	1.98		
							1.00	0.85	1.02

Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester III Honours
Paper: GEOACOR06T – Geography of India



Date: 18.12.2021

Examination Time: 1 hr.

Total Marks: 17

The figures in the margin indicate full marks.

Answer the following question within 600 words

1. What is the significance of agricultural regionalisation? Briefly discuss about the agricultural regions of India. 3+7

Answer the following question within 150 words

2. Briefly discuss about the physiographic characteristics of Ganga delta region? 5

Answer the following question within 50 words

3. What are the major characteristics of vegetation species of Sundarban area? 2

3

BARASAT GOVERNMENT COLLEGE
B.Sc 3rd SEMESTER HONS. GENERAL/GENERAL INTERNAL EXAMINATION, 2021
DEPARTMENT OF GEOGRAPHY
GEOGCOR03T/ GEOHGEC03T – General Cartography

FULL MARKS: 10

TIME: 30 MINUTES

Answer the any two questions (within 150 words):

5x2=10

1. Explain the properties of Polar Zenithal Gnomonic projection.
১। পোলার জেনিথাল নোমোনিক প্রজেকশনের বৈশিষ্ট্য ব্যাখ্যা কর।
2. Define topographical map and state its basic features.
২। টপোগ্রাফিক্যাল মানচিত্র সংজ্ঞা দাও এবং এর মৌলিক বৈশিষ্ট্যগুলি বর্ণনা কর।
3. Explain how the grid reference system helps to determine the location in a topographical map.
৩। গ্রিড রেফারেন্স সিস্টেম কীভাবে টপোগ্রাফিক্যাল মানচিত্রে অবস্থান নির্ধারণ করতে সহায়তা করে তা ব্যাখ্যা কর।

INSTRUCTIONS:

1. WRITE NAME, REGISTRATION NO., DEPARTMENT, SUBJECT AND PAPER NAME AT THE TOP OF THE PAGE
2. Maintain the mentioned word limit
3. Send the finished work within 12.15 pm through the GOOGLE CLASSROOM LINK. Extra 15 minutes' time is given for scanning and sending the exam copy.



DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE
3rd Sem- Paper Cor 5T- Full Marks -17- Date: 20.09.2019

1. Classify warm front and cold front with diagram. 10
2. Describe the process of frontogenesis. 05
3. What is Ferrel's cell? 02

B.Sc THIRD SEMESTER GENERAL ELECTIVE INTERNAL EXAMINATION, 2019

**BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-III THEORY**

FULL MARKS: 17

TIME: 50 MINUTES

Answer the following questions:

1. Discuss the reference scheme of old topographical map by Survey of India. 10
2. Discuss with diagram about the informations provided in the margins of a topographical map by Survey of India. 5
3. What is WGS 84? 2

B.Sc THIRD SEMESTER HONS. INTERNAL EXAMINATION, 2019

**BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-VII THEORY**

FULL MARKS: 17

TIME: 60 MINUTES

Answer the following questions:

1. Plot the following time series data and compute the trend by the moving average assuming that a 4 yearly cycle is present in the data. $6+4=10$

Year	Production of rice in '000 MT	Year	Production of rice in '000 MT	Year	Production of rice in '000 MT
2006	93345	2011	105301	2016	109698
2007	96682	2012	105241	2017	112760
2008	99172	2013	106646	2018	116420
2009	89083	2014	105482		
2010	95970	2015	104408		

2. What are the components of time series? 5
3. White two merits of Moving Average Method. 2



Chaitanya

DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE
INTERNAL ASSESSMENT/ SEM-3/ PAPER- GEOACOR05T/ FM- 17/Time- 45 min

3

Answer all questions.

1. Discuss the governing factors of Insolation.
2. Write a short note on the isothermal layer situated just above the Troposphere.
3. Compare "mother of pearls" and "noctilutent clouds".

10
5

3

Barasat Government College
Department of Geography
Internal assessment
Semester -III
GEOADSE03T

Time : 45mn

full marks -10

Answer the any 2 questions?

5x2=10

1. What is scale? Classify scale in brief.
2. Write advantages and disadvantages of statement scale.
3. Write the difference between old series map and open series map

Barasat Govt. College
Dept. of Geography

Sem-3 paper: 5T (climatology)

time:30 min FM:08

1. Write the external characteristics of 'Front' on the basis of altitudinal position and extension.
Or,
Establish the relationship between stability, lapse rate and altitude with suitable diagram.

5

2. What do you mean by 'Cardels Cyclone'
Or
Define 'Virga'

3



Attempt all questions (All questions are of equal value)

1. Explain different steps of construction of grouped frequency distribution
2. Describe discrete and continuous variable with example

B.A./ B.Sc. 3rd Semester Internal Examination, 2023

BARASAT GOVT. COLLEGE
DEPARTMENT OF GEOGRAPHY
Paper- GEOACOR05P

Full Marks: 12

Time: 1 Hr.

3. Draw Hythergraph using the following data. Compare the climatic condition of the following stations.

10+2=12

Months	J	F	M	A	M	J	J	A	S	O	N	D
Station A Temperature (°C)	23.5	24.1	26.4	28.7	30.5	29.4	28.2	27.8	27.7	28.3	27.0	24.6
Rainfall (mm)	0.6	0.1	0.1	0.2	11.9	573.3	801.0	530.3	388.3	86.5	9.6	7.2
Station B Temperature (°C)	15.3	19.4	24.9	32.7	35.3	36.3	35.3	30.5	29.9	27.7	22.2	16.5
Rainfall (mm)	8.2	9.5	4.0	7.0	10.4	77.4	170.3	213.0	140.2	18.1	4.7	4.3

3

B.A./ B.Sc. THIRD SEMESTAR INTERNAL EXAMINATION, 2020
BARASAT GOVT. COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-5 PRACTICAL

FULL MARKS: 12

1. Represent the following data with suitable diagram. Write a brief interpretation. 10+2=12

STATION: Darjeeling

Months	J	F	M	A	M	J	J	A	S	O	N	D
Wet bulb temperature (°C)	4.8	6.0	9.2	11.9	14.8	16.8	17.3	17.0	16.5	13.5	9.2	5.9
Relative humidity (%)	76	78	71	70	82	91	93	90	90	82	76	76

INSTRUCTIONS:

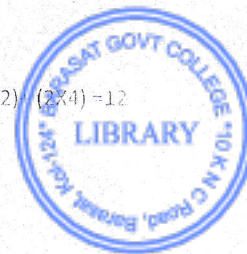
- WRITE NAME, REGISTRATION NO. AND ROLL NO. AT THE TOP OF THE PAGE
- Try to do a neat and clean work; every details contains marks
- Send the finished work within 4.00 pm.
- Send the sheets in a single PDF or JPG format in the following mail ID: smazumder.bgc.2020@gmail.com
- Mail sent to other id will not be entertained

DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE

3rd Sem- Paper Cor 7P- Full Marks -12- Date: 19.09.2019

On the basis of the given data draw ogives. Also Calculate mode, Lower quartile, 8th decile and 52th percentile. (2+2) (2X4) =12

Population Density/Km ²	No. of villages
100-200	5
200-300	6
300-400	8
400-500	7
500-600	10
600-700	9



DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE

3rd Sem- Paper Cor 7T- Full Marks -17- Date: 15.11.2019

- C7T 1-2P
1. Define histogram. 02
 2. Write about significance of histogram. 05
 3. Write a short note on Cumulative frequency and Cumulative frequency curve with examples. 10

SEM 3 Internal Exam 2023/ Paper 7 P/ 12 Marks/ One Hour

Attempt all questions (All questions are of equal value)

- 7h
1. Explain the method of systematic and stratified sampling with examples.
 2. What do you mean by 'sampling without replacement and 'Sampling with replacement? Explain with examples.

Department of Geography

BARASAT GOVERNMENT COLLEGE

Internal Examination Semester III General

Paper: CORE 2P GRAPHICAL CONSTRUCTION OF SCALES

Date: 08.11.2019

Time: 1 hr.

Total Marks: 12

4. What is the full form of R.F? 2
5. Draw a linear scale to show 1km on primary division and 250m on secondary division, on the basis of R.F 1:50000. The scale will show a total length of 5 km. 10

DEPARTMENT OF GEOGRAPHY/ BARASAT GOVERNMENT COLLEGE/ 3rd Semester/Internal
Assessment/GEOACOR05T/ Full Marks: 10/Date: 13.12.2023

Answer any one of the following questions:

- ✓ 1. How is solar radiation absorbed, reflected and transmitted in the atmosphere? Explain the role of clouds, aerosols and greenhouse gases in altering the energy balance. 4+6 10
2. Define inversion of temperature. Discuss how geographic features, weather patterns, and atmospheric conditions contribute to the formation of temperature inversions. 3+7 10

Attempt all questions (All questions are of equal value)



1. Explain the method of systematic and stratified sampling with examples.
2. What do you mean by 'sampling without replacement' and 'Sampling with replacement'? Explain with examples.

B.Sc 3rd SEMESTER HONS. INTERNAL EXAMINATION, 2023
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOACOR07P – Statistical Methods in Geography

FULL MARKS: 12

TIME: 50 MINUTES

1. Draw cumulative frequency curve (*less* more than type only) and locate upper and lower Quartiles graphically. Calculate the Quartiles deviation. What is the total number of wage earners below 21 years? $6+3+3=12$

Age Group	14-15	16-17	18-19	20-21	22-23
No. of wage earners	60				

B.Sc HONS. 3rd SEMESTER INTERNAL EXAMINATION, 2023
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
PAPER- GEOACOR05P

FULL MARKS: 12

TIME: 1 Hour

Answer the following question:

1. Draw hythergraph based on the following data and compare the climatic condition of the 2 stations. $10+2=12$

		Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
Station A	Temp. (°C)	16.4	19.8	24.8	31.3	35.0	34.4	31.3	29.7	29.1	27.7	22.3	17.8
	Rainfall (mm.)	22.7	14.0	8.9	5.9	10.3	78.9	281.8	206.1	143.3	33.4	6.0	4.7
Station B	Temp. (°C)	21.4	24.4	29.1	32.5	33.8	32.5	29.7	28.7	29.2	29.9	26.7	22.7
	Rainfall (mm.)	1.8	00	0.9	1.7	2.2	141.6	239.0	163.6	142.2	20.9	2.9	1.1

B.Sc 3rd SEMESTER HONS. INTERNAL EXAMINATION, 2023
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOACOR07T – Statistical Methods in Geography

TIME: 45 MINUTES

FULL MARKS: 15

Answer the following questions (within 600 words):

 $10 \times 1 = 10$

1. What are the relative measures of dispersion? Explain the significance of standard deviation. Find out the standard deviation of the following data. $2+3+5=10$

Weight of coffee (in grams)	Frequency	Weight of coffee (in grams)	Frequency
200-201	13	203-204	10
201-202	27	204-205	5
202-203	18	205-206	6

Answer the any one questions (within 150 words):

 $5 \times 1 = 5$



Internal Examination 2022 Sem 3 paper-6T subject: Geography of India

FM:20

1. Discuss the different theories regarding the origin of Siwalik Range. 10
Or
Describe the factors affecting the uneven distribution of rainfall in India on the basis of mountain barrier and North-East Monsoon wind.
2. Distinguish between tropical wet and tropical dry evergreen forest on the basis of distributional pattern and characteristics. 5
Or
Classify Black Soil based on thickness of layers.
3. Write the impact of Jet Stream on the condition of winter weather in India. 3
Or
Mention the mechanism of Karewa formation.
4. What do you mean by Bengal Gneiss? 2
Or
Define Pat region.

B.Sc 3rd SEMESTER HONS. INTERNAL EXAMINATION, 2022
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOACOR07T – Statistical Methods in Geography

FULL MARKS: 15

Answer the following questions (within 600 words):

TIME: 50 MINUTES

10x1=10

1. What is called central tendency in statistics? Find the mean of the given data using assumed mean method.
Calculate the Q_3 , D_7 and P_{46} of the same data.

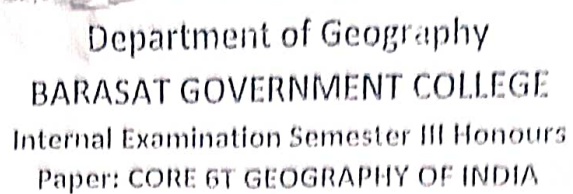
2+5+3=10

Class	Frequency	Class	Frequency	Class	Frequency
140- 150	17	180- 190	84	220- 230	31
150- 160	29	190- 200	107	230- 240	16
160- 170	42	200- 210	49		
170- 180	72	210- 220	34		

Answer the any one questions (within 150 words):

5x1=5

2. What are the significance of measuring dispersion of a data? What are the different methods of measuring dispersion?
3. What is correlation? Explain the difference between positive and negative correlation.



Total Marks: 17

1. Define agriculture?
2. Discuss shortly about the characteristics of tribal society.
3. Give a brief account of the agricultural regions of India.

2
5
10

BGC/SEM-III/Paper:6T

Time:1hr

1. Discuss the origin of Siwalik on the basis of the role of Siwalik River.

সিমানা নদী সীলিক নদীর উপর

Write the factors for the uneven distribution of rainfall based on mountain barrier. 10

অসম প্রাচীর পার্বত্য প্রাচীর

2. Mention the major rock systems of India.

Or

Mention the longitudinal divisions of the Himalayas.

৫) বঙ্গবন্ধু আনন্দ চন্দ্র

3. Classify the black soil mentioning thickness of the layers.

Or

Define 'Back Mangrove' with example.

3

4. Define 'Foredeep'

অগ্রভূমি

Or

Define Himalayan arcuation.

2

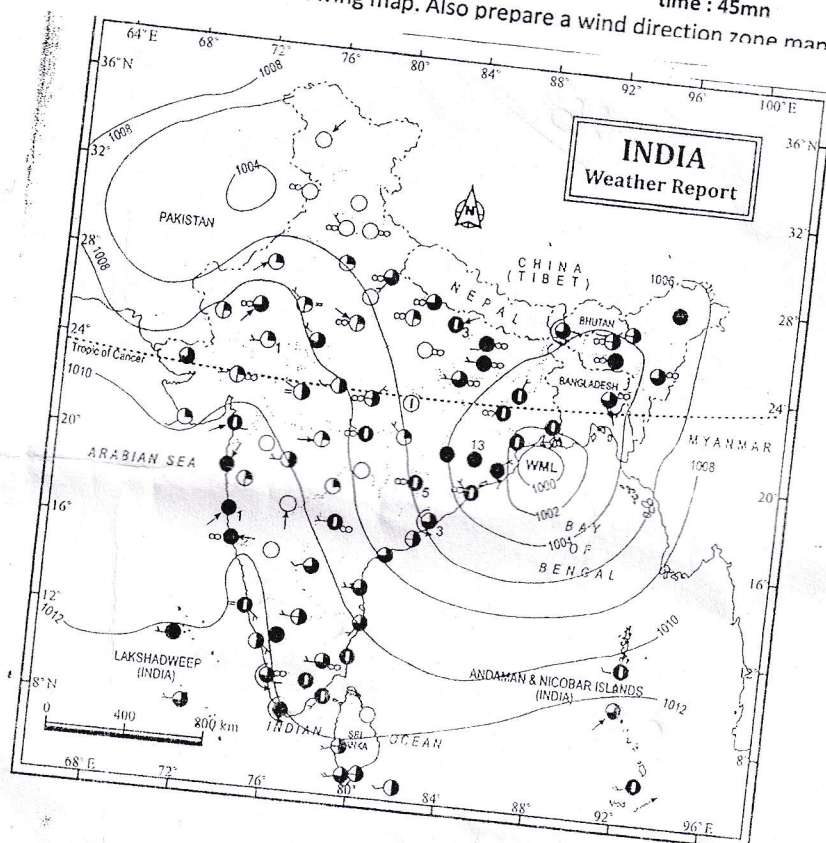
Barasat Government College, Department of Geography
INTERNAL ASSESSMENT 2023-24
Semester III, Paper- GEOCOR05P

Full Marks -12

1. Draw wind direction from the following map. Also prepare a wind direction zone map

time : 45mn

8+4=12





B.Sc THIRD SEMESTER HONS. INTERNAL EXAMINATION, 2019
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-VI THEORY

FULL MARKS: 17

TIME: 50 MINUTES

Answer the following questions:

1. Discuss the nature of population growth in India and mention its consequences. 6+4=10
2. Mention the goals of National Population Policy 2000 in brief. 5
3. Define population explosion. 2



B.Sc HONS. 3rd SEMESTER INTERNAL EXAMINATION, 2023
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
PAPER- GEOACOR05P

FULL MARKS: 12

TIME: 1 Hour

Answer the following question:

1. Draw hythergraph based on the following data and compare the climatic condition of the 2 stations.

10+2=12

		Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
Station A	Temp. (°C)	16.4	19.8	24.8	31.3	35.0	34.4	31.3	29.7	29.1	27.7	22.3	17.8
	Rainfall (mm.)	22.7	14.0	8.9	5.9	10.3	78.9	281.8	206.1	143.3	33.4	6.0	4.7
Station B	Temp. (°C)	21.4	24.4	29.1	32.5	33.8	32.5	29.7	28.7	29.2	29.9	26.7	22.7
	Rainfall (mm.)	1.8	00	0.9	1.7	2.2	141.6	239.0	163.6	142.2	20.9	2.9	1.1

Barasat Government College
Department of Geography
INTERNAL ASSESMENT 2023-24
Semester V-III
Paper- GEOCOR06T

Full Marks -20

time : 1hr

10x1=10

Answer any one:

1. Write the factors of development of Automobile industries. Mention the problems and prospects of this industry.
2. Write favourable condition of growth of IT industries in India. Mention the distribution of this industry.

Answer any two:

5X2=10

3. Mention the stages of evolution of the Karewas in Kashmir region.
4. State the physiographic characteristics of the Ganga plain.
5. How P. Sengupta divide India into economic region?
6. Write the characteristics of IT Park.



DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE
INTERNAL ASSESSMENT

Full Marks -20

PAPER: GEOGCOR04T/GEOHGECOR04T

TIME: 30 Minutes

DATE: 25.05.2023

1. What are the primary sources and causes of air pollution and how do they differ between urban and rural areas? 10
2. What are the primary causes of biodiversity loss? 10

19

BGC/GEOGRAPHY/SEM 4/Economic Geography/9T/FM 20/Time:60 min

1. Mention different types of goods with suitable examples. 10
2. What is brain circulation with suitable examples. 5
3. Write the characteristics of exchange on the basis of the combination between deficit and surplus areas. 3
4. What is economic man? 2

Barasat Government College
Department of Geography
INTERNAL ASSESSMENT
Semester IV
Paper- GEOACOR09T

Full marks : 20

time: 1hr

E. Answer any one question.

10x1=10

13. Write the use of Iron ore and its distribution in India .
14. Write the causes of Resource crisis with suitable example.

F. Answer any two question.

5x2 =10

15. What are the environmental impacts of bauxite mining?
16. Write the management adopted to solve the problems associated with iron ore mining.
17. Write the measures taken to prevent energy crisis.
18. Explain the pattern of resource depletion.



DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE
4th Sem- Paper Cor 8T- Full Marks -17- Date: 05.03.2020

1. What is regional disparity? 02
2. Describe various reasons of regional disparity with examples. 10
3. State the relation between regional development and education. 05

Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester IV Honours
Paper: COR 8T REGIONAL PLANNING AND DEVELOPMENT

Date: 05.03.2020

Time: 1 hr.

Total Marks: 17

1. What do you mean by human development? 2
2. Write down the major differences between growth and development. 5
3. Discuss briefly about the economic indicators of development. 10

B.Sc THIRD SEMESTER HONS. INTERNAL EXAMINATION, 2020
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-7 THEORY

FULL MARKS: 10

TIME: 30 MINUTES

Answer any **one** question:

1. Plot the following time series data and compute the trend by the moving average assuming that a 4 yearly cycle is present in the data. 6+4=10

Year	Production in '000 Tons	Year	Production in '000 Tons
1998	75	2003	96
1999	79	2004	102
2000	82	2005	107
2001	86	2006	112
2002	91	2007	118

Or,

What are the components of time series? Write the merits of Moving Average Method. Write 2 uses of time series analysis. 5+3+2=10

DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE
INTERNAL ASSESSMENT - 2024/ SEMESTER - IV/ PAPER - GEOACOR08T/ FM-20/ 24.04.2024
Time: 45 minutes



Answer any **one** of the following questions

10X1=10

1. Compare national level planning and state level planning of India.
2. Describe the factors influencing the development of urban agglomerations.

Answer any **two** of the following questions

5X2=10

3. Enumerate the functional structure of multi-level planning.
4. Discuss the necessity of multi-level planning in India.
5. Compare the Spread Circuit and Backwash Circuit concepts in Myrdal's Theory.

BGC/GEOGRAPHY/SEM 4/Economic Geography/9T/FM 20/Time:60 min

1. Mention different types of goods with suitable examples. 10
2. What is brain circulation with suitable examples. 5
3. Write the characteristics of exchange on the basis of the combination between deficit and surplus areas. 3
উৎস ও গন্তব্য
4. What is economic man? *Service*

Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester IV Honours
Paper: GEOACOR10T – Environmental Geography

Date: 09.05.2024

Examination Time: 1 hr.

Total Marks: 17

The figures in the margin indicate full marks.

1. What do you understand by holistic environment? 2
2. Discuss briefly about the importance of system approach in the geographical studies. 5
3. How does the space-time hierarchy of environment influence the life and livelihood of human being? 4 + 6

Barasat Government College
Department of Geography
INTERNAL ASSESMENT
Semester IV
Paper- GEOACOR09T

Full marks : 17

time: 50 min.

B. Answer any one question?

7. Define plantation agriculture. Describe the tea plantation scenario of India 2+8=10
8. What is mixed farming? write the characteristics of mixed farming in Europe. Also mention the locational pattern of this farming in Europe. 2+4+4=10

D. Answer any one question?

5x1

9. What are the method of fishing? Mention all briefly.
10. Write different mining methods in brief.

E. Answer any one question?

2x1

11. Write a short note on Jhum cultivation.
12. Write the commercial importance of forestry.



Dept. of Geography
Barasat Govt. College
Economic Geography

Sem-4

Full Marks: 20

Time: 1 hr

1. How the environmental approach of economic geography does contribute to our understanding of the economic world? 10
 2. What are the implications of the different types of goods for economic activity? 5
 3. How does the exchange service affect the economic society? 3
 4. Define "Evergreen Revolution"? 2
-

Barasat Government College
Department of Geography
INTERNAL ASSESSMENT
Semester IV
Paper- GEOACOR09T

time: 50 min.
10x1

Full marks : 17

A. Answer any one question?

1. Discuss the growth and development of cotton textile industries in India. Analyse the cause^s of dispersion of Cotton Textile Industries in India.
2. In the light of industrial locational factors, explain why the large iron and steel industries prefer raw material location. Give some examples regarding this. 5x1

B. Answer any one question?

3. Write are the characteristics of SEZ.
4. Write some popular methods of mining. 2x1

C. Answer any one question?

5. What is technological park?
6. Write the importance of forestry as primary activity.

④

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Dept. of Geography
Barasat Govt. College
Economic Geography

Sem-4

Full Marks: 20

Time: 1 hr

1. How the environmental approach of economic geography does contribute to our understanding of the economic world? 10
2. What are the implications of the different types of goods for economic activity? 5
3. How does the exchange service affect the economic society? 3
4. Define "Evergreen Revolution"? 2



DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE
INTERNAL ASSESSMENT/ SEM-4/ PAPER- GEOGCOR04T/ FM- 20/Time- 50 min

Answer all questions.

1. Describe the concept of "Holistic Environmental Approach" in environmental studies with examples. 10
2. Describe the influences of nature on man in Tropical Rain Forest Biome. 10

4
Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester IV Honours
Paper: GEOACOR08T – Regional Planning and Development

Date: 03.05.2024

Examination Time: 1 hr.

Total Marks: 17

The figures in the margin indicate full marks.

1. What do you mean by regional planning? 2
2. Briefly discuss about various environmental indicators of development. 5
3. Differentiate between growth and development. How does development is influenced by regional planning. 4 + 6

GE

Barasat Government College
Department of Geography
INTERNAL ASSESSMENT
Semester IV
Paper- GEOHGECOR04T

time: 30 min

Full marks: 10

1. Write about the adaptation of human society in Equatorial environment. 10
নিরক্ষীয় অঞ্চলের মানব সমাজের অভিযোজন সম্পর্কে লেখো।
2. What are the various types of ecological pyramid? Differentiate between food chain and food web.
বাস্তুতন্ত্রের পিরামিড কয় প্রকার? খাদ্য শৃঙ্খল ও খাদ্য জালকের মধ্যে পার্থক্য নিরূপন কর। 3+7

GE
14

Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester IV General
Paper: GEOGC04T – Environmental Geography



Date: 28.04.2022

Examination Time: 1hr.

Total Marks: 17

The figures in the margin indicate full marks.

1. What do you mean by desertification? 2
মরুভূমি বলতে কি বোঝায়?
2. How can we manage liquid waste? 5
তরল বর্জ্য কি ভাবে ব্যবস্থাপনা করতে পারি?
3. What do you mean by biodiversity? What are the various causes behind its loss? 2+8
জীববৈচিত্র্য বলতে কি বোঝায়? এর ধ্বংসের প্রধান কারণগুলি কি কি?

14

Department of Geography
BARASAT GOVERNMENT COLLEGE
Internal Examination Semester IV Honours
Paper: GEOACOR08T – Regional Planning and Development

Date: 29.04.2022

Examination Time: 1hr.

Total Marks: 17

The figures in the margin indicate full marks.

1. What do you mean by human development? 2
2. What are principles of regional planning? 5
3. Compare between the formal and functional regional? What are the methods of delineating formal regions? 4+6



B.Sc FOURTH SEMESTER GENERAL INTERNAL EXAMINATION, 2020
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY

GEOHGEC04T/GEOGCOR047

DATE: 19.11.2020

FULL MARKS: 10

TIME: 30 MINUTES

Answer any *one* of the following questions:

1. What is biodiversity? Mention the different types of biodiversity. Discuss in brief the different threats to biodiversity.

2+3+5=10

১। জীববৈচিত্র্য কি কাকে বলে? বিভিন্ন প্রকারের জীববৈচিত্র্যের উল্লেখ কর। জীববৈচিত্র্য ধ্বংসের কারণ গুলি উল্লেখ কর।

OR

2. What is photochemical smog? Discuss the different causes of air pollution and their management measures.

2+8=10

২। ফটোকেমিক্যাল স্মোগ কি? বায়ু দূষণের কারণ ও নিয়ন্ত্রণের পদ্ধতি গুলি আলোচনা করো।



SEM 5 Internal Exam 2023/ paper 11T/ 8 Marks/ One Hour

5

Attempt all questions (All questions are of equal value)

1. How should a literature review be organized?
2. Describe different steps of Research Design.



15

BGC /Geography/SEM-5/11T/FM:08/time:30min

1. Distinguish between Belt and Line Transect based on shape and data productions.

Or

Mention the stages in drawing a Geographical field sketch.

5

2. Mention the criteria of the selection of the study area in Geographical research on the basis of climatological or coastal studies.

Or

Prepare a sample table to collect the chronological data along with suitable examples in Geographical field works.

3



6

THIRD YEAR HONS. TEST EXAMINATION, 2018
GEOGRAPHY- HONOURS
PAPER-V

Group-A
(Social, Cultural and Political Geography)
Category-A

1. Answer any two of the following questions with in 600 words each. 10x2=20
- a) Discuss the concept of cultural geography. Identify the major cultural groups in India based on religion. 3+7=10
- b) How is dispersed rural settlement different from compact rural settlement? Explain the influence of caste system on morphology of rural settlement in India. 4+6=10

Category-B

2. Answer any eight of the following questions with in 150 words each. 5x8=40
- a) Discuss briefly the concept of social ecology.
- b) Distinguish between cultural hearth and cultural realm
- c) Distinguish between absolute space and relative space
- d) Differentiate between site and situation
- e) State the functions of CBD
- f) What do you mean by hierarchy of urban settlement

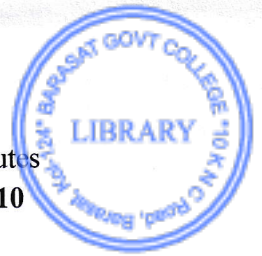


SEM 5 Internal Exam 2023/ Paper 12T/ 8 Marks/ One Hour

Attempt all questions (All questions are of equal value)

1. How does the sensor work in satellites?
2. In what ways can tone and colour be used to interpret satellite images?

B.Sc 5th SEMESTER HONS. INTERNAL EXAMINATION, 2022
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOADSE01T – Soil and Bio Geography



FULL MARKS: 20

TIME: 50 minutes

Answer the *any one* question (within 600 words):

10x1=10

1. Describe the characteristics of different structures and mention the impact of structure on soil fertility. 7+3
2. What is truncated soil profile how it is formed? Suggest various measures of soil erosion in humid areas. 6+4

Answer the *any two* questions (within 150 words):

5x1=5

3. "Lower pH value of soil, greater acidity"- Explain
4. How time influences formation of soil profile?
5. Distinguish between eluviation and illuviation.



B.Sc. 5th SEMESTER GENERAL INTERNAL EXAMINATION, 2022-23
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOGDSE01T – Soil and Bio Geography

FULL MARKS: 20

TIME: 1 hrs.

Answer the *any one* question (within 600 words):

10x1=10

1. Discuss with suitable examples the importance of climate and organisms as soil forming factors.
১। মাটি গঠনের কারণ হিসাবে জলবায়ু এবং জীবের গুরুত্ব উপযুক্ত উদাহরণ সহ আলোচনা কর।
2. What is zonal soil? Write the profile development process of podzol soil.
২। জোনাল মাটি কি? পডজল মাটির প্রোফাইল এর গঠন প্রক্রিয়া লেখ।

Answer the *any two* questions (within 150 words):

5x2=10

3. How do soil pH influences soil fertility?
৩। মাটি pH কিভাবে মাটির উর্বরতাকে প্রভাবিত করে?
4. What are the factors that accelerates soil erosion process?
৪। মাটি ক্ষয় প্রক্রিয়াকে ত্বরান্বিত করে এমন কারণগুলি কী কী?
5. Distinguish between pedocal and pedalfet.
৫। পেডোকাল এবং পেডালফার মণ্ডিকার মধ্যে পার্থক্য কর।



5

B.Sc FIFTH SEMESTER HONS. INTERNAL EXAMINATION, 2020
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
CORE-DSE 03T

FULL MARKS: 10

TIME: 30 MINUTES

Answer the any two questions (within 150 words):

5x2=10

1. Write in brief about the literacy composition of India.
2. What are the different measures of sex composition?
3. Explain how age-sex pyramid helps to identify the stage of demographic transition, a country belongs to.



Dept. of Geography
Barasat Govt. College
Disaster and Hazard Management
Full Marks: 08

Time: 30 minutes

1. Define with examples the stages following "Extreme Events". (5)
2. According to Risk equation, $R = \frac{H \times V}{C}$, where R=risk. Mention the other parameters of the equation. (3)



6

DEPARTMENT OF GEOGRAPHY
BARASAT GOVERNMENT COLLEGE
INTERNAL ASSESSMENT (6th Sem)

Full Marks- 20

PAPER: GEOGRAPHY

TIME: 1 Hour

DATE: 03.05.2023

1. Describe the relief features of ocean basin floor with proper diagram.
2. Define Hypsometric graph. Write its significance
3. How sub marine canyons are formed?

10
5
5



B.Sc. Geography Semester-VI, 2022-23

**Barasat Government College
Resource Geography (6T)**

Time: 1 hour

Full Marks: 20

- | | |
|--|----|
| 1. Write the different principles of CBRM. | 10 |
| 2. Mention the traditional approach of economic growth. | 5 |
| 3. Evaluate the impact of fossil fuel depletion on 'cold war'. | 3 |
| 4. Which state become the first Indian state to set up 'Happiness Department'? | 2 |



B.Sc 6TH SEMESTER HONS. INTERNAL EXAMINATION, 2023
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOACOR13T – Evolution of Geographical Thought

FULL MARKS: 15

TIME: 50 MINUTES

Answer any *one* question from the following (within 600 words):

10x1=10

1. Give an account of the geographical ideas during Greek period.
2. Describe the voyage of Magellan. Explain how age of discovery and exploration has helped in the development of geography?

5+5=10

Answer any *one* question from the following (within 150 words):

5x1=5

3. How Dark age has affected the growth of geographical study?
4. How did Chinese scholars contributed in the field of map making and cartography during ancient period?



6 29
BGC/GEOGRAPHY/SEM 6/Resource Geography/DSE06T/PM 20/Time:60 min

1. Name the four principles of community based resource management and explain any one of them. 10
2. What are the disadvantages of community based resource management based on time and space. 5
3. Mention two traditional concepts of economic growth. 3



20

BGC/GEOGRAPHY/SEM 6/Disaster Management/14T/FM 08/Time/30 min

1. Mention the relationships between hazard, vulnerability and disaster with proper explanation of the symbols. 5
2. Mention the stages following "Extreme Events". 3



B.Sc. 6TH SEMESTER HONS. INTERNAL EXAMINATION, 2022-23
BARASAT GOVERNMENT COLLEGE
DEPARTMENT OF GEOGRAPHY
GEOADSE04T – Hydrology and Oceanography

FULL MARKS: 15

TIME: 50 MINUTES

Answer any one question from the following (within 600 words):

10x1=10

1. Illustrate the hydrological cycle of a drainage basin. Explain the biological role of a hydrological cycle.

6+4= 10

2. What are the factors that controls the position of ground water table? Explain how movement of ground water can be explained with the help of Darcy's law.

5+5= 10

Answer any one question from the following (within 150 words):

5x1=5

2. State the principles of watershed management.

3. Define evaporation and explain its types.