

COOCH BEHAR PANCHANAN BARMA UNIVERSITY

B.A. Honours 5th Semester Examinations, 2022

GEOGRAPHY

DSE-2

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

The question paper contains CARTOGRAPHY and FLUVIAL GEOMORPHOLOGY.

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

Candidates should mention it clearly on the Answer Book.

CARTOGRAPHY

GROUP-A

	Answer any one question from the following	$15 \times 1 = 15$
1.	Discuss the nature, scope and history of cartography.	4+4+7
	Prove that radius of any parallel (ϕ) in Conical Equal Area projection with one standard parallel is $-R\sqrt{\cot^2\phi_0-(2\sin\phi/\sin\phi_0)+2}$. Write down the principle and properties of the same projection.	Land Land
	What is Triangulation? Write the uses of theodolite survey Describe the	3+2+10

methods of finding out the height and distance of an object above benchmark from two collinear instrument stations where instrument heights are same and base of the object is inaccessible. Draw neat sketch also.

3+2+10

GROUP-B

Answer any one question from the following 10×1 = 10 Make a comparative analysis of Simple Conical Projection with II standard parallels and Conical Equal Area Projection with I standard parallel. Explain in detail about the determination of accuracy level in Nested Mean Method of Choropleth mapping.

5121

1

Turn Over

UG/CBCS/B.A./Hons./5th Sem./Geography/DSEGEOH2/2022

GROUP-C

	Answer any one question from the following	$5 \times 1 = 5$
7.	Distinguish between Perspective and Non-perspective projections.	5
8.	Write down the different uses of a choropleth map.	. 5
9.	Write down the usage of Transit theodolite.	5

 $1 \times 10 = 10$

	GROUP-D
10.	Answer any ten questions from the following:
(a)	Write the full form of UTM.
(b)	The rhumbline appears as in Mercator projection.
(c)	Give example of a poly-superficial projection.
(d)	Define Line of Collimation.
(e)	Define Levelling.
(f)	Write the difference between azimuth and bearing.
(g)	Name one of the earliest proponents of choropleth map.
(h)	Mention one merit of choropleth map.
(i)	Define standard parallel.
(j)	Give one example of a non-developable surface.
(k)	The word choropleth comes from the word
(1)	What is a generating globe?
(m)	What is centering?
(n)	Give example of an elliptical projection.

FLUVIAL GEOMORPHOLOGY

(o) The first atlas of the world was prepared by

SECTION-I

	Answer any one question from the following	$15 \times 1 = 15$
1.	Describe the nature and scope of Fluvial Geography. Explain its recent trends in applied geomorphology.	10+5
2.	What are major characteristics of a braided river channel? Explain the process of origin and evolution of braided river channel.	3+12
3.	Elucidate the various erosional processes of a river and its associated landforms.	5+10

UG/CBCS/B.A./Hons./5th Sem./Geography/DSEGEOH2/2022

SECTION-II

	Answer any one question from the following	$10 \times 1 = 10$
4.	Explain the various features associated with a floodplain.	10
5.	Define Drainage Basin. Explain the role of Drainage Basin as a controlling factor of velocity of river.	2+8
6.	Briefly describe the various types of channel pattern with suitable diagram.	10
	SECTION-III	
	Answer any one question from the following	$5 \times 1 = 5$
7	Briefly describe the formation of ox-box lakes.	
	Define bifurcation ratio.	
0.		
9.	What do you know about hydraulic action?	
	SECTION-IV	
10.	Answer any ten questions from the following:	$1 \times 10 = 10$
(i)	Define Abrasion.	
(ii)	Alluvial fans are developed in the zone.	
(iii)	The delta exhibits the best example of bird foot.	
(iv)	What is Natural Levee?	
(v)	Mention two characteristics of a braided river.	
(vi)	Write the formula for Ruggedness Index.	
(vii)	Give example of a Rejuvenated stream.	
(viii)	Canyons are result of work of river.	
(ix)	What is the unit of river discharge?	
(x)	Name any one paleo river channel found in Kochbihar district.	
(xi)	What is Thalweg?	
(xii)	Name any two methods of stream ordering.	
(xiii)	What is meant by Sinuosity Index?	
(xiv)	Give example of a Knickpoint falls from India.	
(XV)	In which situation river reach graded condition?	
	X	