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## PG (NEW) CBCS M.Sc. Semester-I Examination, 2018 GEOGRAPHY

PAPER: GEO-102

(Hydrospheric Science)

Full Marks: 40



**Time: 2 Hours** 

## Write the answer for each unit in separate sheet

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

GEO 102.1: Oceanography

Marks: 20

## **GROUP-A**

1.	Answer any one question:	×8=8
a)	Identify the major sources of sediment in the sea and mention characteristics.	thei 8
b)	Discuss the role of vegetation's and moistures in the evolution of cand dunes with special reference to sandy alluvium coast of Odisl West Bengal.	
	Group-B	
2.	Answer any two questions:	×4=8
a)	Identify the various biotic resources of the oceans.	4
b)	Briefly explain the origin of the tides with special referent progressive wave theory.	ice to
<b>c</b> )	Elucidate glacial control theory for the development of coral reef.	4
d)	Elucidate the significance of mangrove swamps as coastal habitat.	4
	Group-C	
3.		$\times 2=4$
a)	Briefly explain the geomorphology of coastal dunes.	2
b)	What are the biological functions of saltmarshes?	2
c)	What is the origin of cobalt rich oceanic crust?	2
d)	Define EEZ.	2

## GEO 102.2: Hydrology



Marks: 20 GROUP-A

-	This wer any one question.	1.00
a)	Elucidate isohyetal method of estimating rainfall volume. necessity of magnitude frequency analysis of hydrological even	
b)	How is system approach applied in explaining river basin hyd	rology? 8
	Group-B	
2.	Answer any two questions:	2×4=8
a)	Why 'Thiessen polygon' method is more useful for precise mof spatial distribution of precipitation volume.	neasuremen <b>4</b>
b)	Bring out the hydrological significance of basin lag-time.	4
c)	How is discharge of a river estimated from a rating curve?	4
d)	Discuss the role of soil moisture for maintaining regional hazard's.	nydrologica <b>4</b>
	Group-C	
3.	Answer any two questions:	$2\times2=4$
a)	What is 'Confined Aquifer'	2
b)	Define return flow in a hydrological cycle.	2
c)	Define unit-hydrograph.	2
d)	Define aquitard.	2

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