

Structured Essay Questions

Answer ALL Questions

Cluster 1 Development, Economy and Environment

Essay Question

- 1** 'Political factors are the main cause of conflicts over transboundary rivers.'

Evaluate this statement.

[20]

Cluster 2 Tropical Environments

Structured Question

- 2** Resource 1 shows the global distribution of average annual insolation (measured in terms of watts per square metre). Resource 2 shows the monsoon circulations in Asia. Resource 3 shows the 2022 weather data and water level of the Brahmaputra River at the Assam region in India. Resource 4 shows a waterlogged area in Assam, July 2022.

- (a)** Explain the effect of angle of incidence of insolation on surplus heat in the tropics. [6]
- (b)** Cite data from Resource 1 to describe the global distribution of the average annual insolation over continents. [4]
- (c)** With reference to Resource 1, explain why the average annual insolation varies between continents and oceans. [4]
- (d)** With reference to Resource 2, explain how wind directions change from summer to winter over India. [6]
- (e)** With reference to Resource 3, compare the weather patterns for Assam between October to March and April to September. [4]
- (f)** With reference to Resources 3 and 4, suggest the possible causes and effects of floods in Assam. [6]

Raffles Institution
2023 Year 5 Term 3 Common Test

Level: Year 5

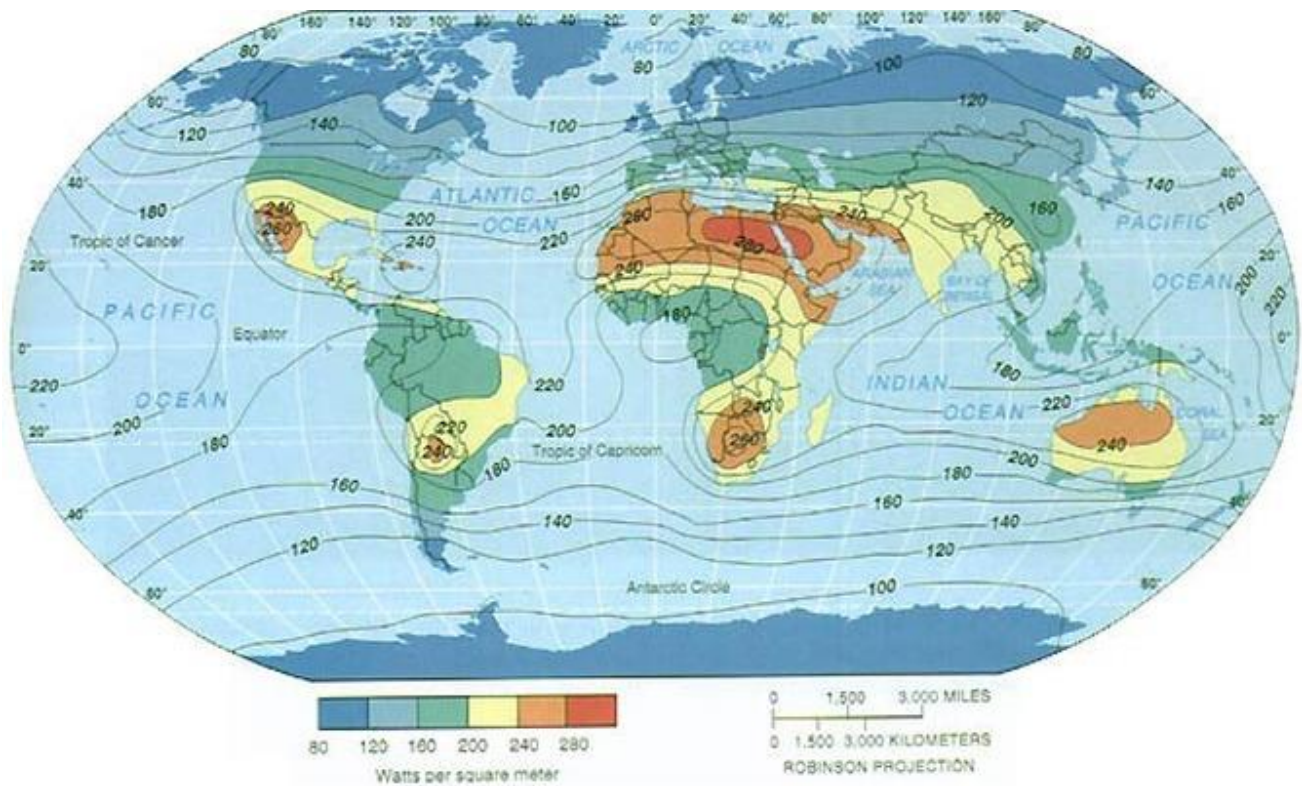
H2 Geography
9173

Time: 1 hr 30 mins

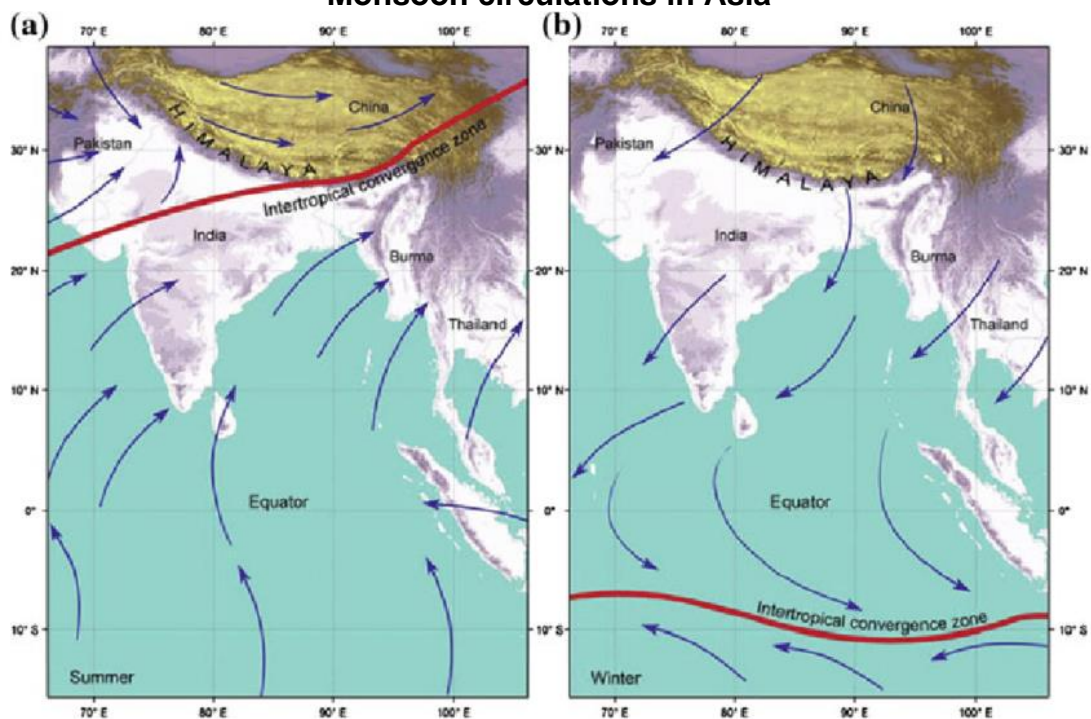
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Resource 1 for Question 2
The Global Distribution of Average Annual Insolation



Resource 2 for Question 2
Monsoon circulations in Asia



Resource 3 for Question 2
Weather Data and Water level of the Brahmaputra River (Goalpara Gauging Station in Assam, 2022)

Month	Max. Water Level (m)	Min. Water Level (m)	Days of Rain	Avg. Temperature (°C)
Jan	30.1	20.2	1	20.1
Feb	33.0	20.1	2	23.2
Mar	37.6	24.2	3	24.7
Apr	32.2	27.7	4	25.8
May	38.7	26.5	16	26.1
Jun	40.3	36.5	21	27.8
July	39.2	36.6	20	26.9
Aug	38.1	29.8	15	25.5
Sept	35.1	27.1	8	24.2
Oct	34.2	26.8	5	22.9
Nov	34.9	22.9	4	21.5
Dec	30.8	21.5	2	20.2

**the danger water level at Goalpara Station is 36.25m*

Resource 4 for Question 2
Photograph of Waterlogged area in Assam, July 2022

