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**Answer sheet**

Module 3, Lesson 2

Seasonal differences

Task 2: Observe patterns of rainfall

**Q1)** Which month gets the most rainfall in Mumbai?

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**Q2)** Which months appear to get little or no rainfall in Mumbai?

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**Q3)** Approximately how much rainfall does Mumbai get each year (in millimeters)?

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**Q4)** Write a sentence summarizing the overall pattern of rainfall in Mumbai in an average year.

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**Q5)** Analyze the graphs and fill in the Mangalore section of the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| **City** | **Months with rainfall  > 50mm** | **Highest monthly rainfall (mm)** | **Total annual rainfall (mm)** |
| Mangalore |  |  |  |
| Mumbai |  |  |  |
| Ahmadabad |  |  |  |

**Q6)** Complete the rest of the table above. Use estimates.

**Q7)** As you move northward along the subcontinent’s west coast, how does the pattern of rainfall change?

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**Q8)** Although the monthly rainfall amounts differ, what similarities do you see among the overall rainfall patterns of these three cities?

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Task 3: Compare coastal and inland cities

**Q9)** Complete the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| **City** | **Months with rainfall > 50 mm** | **Highest monthly rainfall (mm)** | **Total annual rainfall (mm)** |
| Bangalore |  |  |  |

**Q10)** How does the rainfall pattern of Bangalore compare with that of Mangalore?

Similarities: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Differences: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Q11)** What is the distance between the two cities? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q12)** How can the data in the Physical Features layer help you explain the differences between patterns of rainfall in inland Bangalore and coastal Mangalore?

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Step 4: Compare eastern and western South Asian cities

**Q13)** Analyze the graphs and complete the table below.

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| --- | --- | --- | --- |
| **City** | **Months with rainfall ≥ 20 mm** | **Highest monthly rainfall (mm)** | **Total annual rainfall (mm)** |
| Kabul |  |  |  |
| Herat |  |  |  |

**Q14)** Describe the pattern of rainfall in these two cities.

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**Q15)** How do you think Afghanistan’s rainfall pattern affects the way of life in that country?

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**Q16)** Analyze the graphs and complete the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| **City** | **Months with rainfall  ≥ 20mm** | **Highest monthly rainfall (mm)** | **Total annual rainfall (mm)** |
| Kolkata |  |  |  |
| Dhaka |  |  |  |

**Q17)** Describe the pattern of rainfall in these two cities.

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**Q18)** What is happening to the patterns of rainfall as you move from west to east across South Asia?

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Step 5: Observe yearly precipitation

**Q19)** Which regions of South Asia get the least rainfall?

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**Q20)** Which regions of South Asia get the most rainfall?

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**Q21)** In Q18 you were comparing Herat, Delhi, Kolkata, and Dhaka. Does the map of yearly rainfall that is on your screen now reflect the observation you made at that time? Explain.

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**Q22)** What relationships do you see between South Asia’s patterns of yearly rainfall and its physical features?

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Step 6: Explore the monsoon’s impact on agriculture and population density

**Q23)** Which regions or countries of South Asia are suitable for crop farming and which are not? Explain.

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**Q24)** In which regions of South Asia do you expect to see the lowest population density? Explain.

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**Q25)** In which regions of South Asia do you expect to see the highest population density? Explain.

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**Q26)** Does the Agriculture layer reflect the predictions you made in Q23? Explain.

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**Q27)** Why are grazing, herding, and oasis agriculture the major activities in Afghanistan?

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**Q28)** What do you know about rice cultivation that would help explain its distribution on the agriculture map?

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**Q29)** Is there any aspect of the agriculture map that surprised you? Explain.

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**Q31)** Why is Afghanistan’s population density so low?

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**Q32)** Since most of Pakistan gets little to no rainfall, how do you explain the areas of high population density in that country?

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**Q33)** What is the relationship between population density and patterns of precipitation in South Asia?

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**Q34)** What is the relationship between population density and physical features in South Asia?

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