

## The Climate of India Assignment Sheet

### Q.1.

- (a) Name two types of cyclonic systems that affect India and two areas that receive rainfall from these systems.
- (b) Give two important characteristics of the South West monsoon rainfall.
- (c) Give reasons for the following:
- (i) When the Malabar Coast is receiving heavy rainfall in July, the Tamil Nadu coast is comparatively dry.
  - (ii) The Northern plains of India have a continental type of climate.
  - (iii) Central Maharashtra receives little rainfall.
- (d) Study the climate data given below and answer the questions that follow:

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Temperature in °C	23.1	24.8	26.5	29.2	32	32.8	33.1	32.1	30.5	29.3	28.7	26.1
Rainfall cm	15.3	10.1	0.3	0.1	1.3	4.5	6.1	10.2	10.5	20.1	16.8	19.0

- (i) Calculate the annual rainfall experienced by the station.
- (ii) Suggest the name of this station, giving a reason for your answer.
- (iii) Name the season during which the rainfall is heaviest. **[2013]**

### Q.2.

- (a) Mention the different sources of rain in Punjab and Tamil Nadu during the winter season.
- (b) State the benefits that are derived from the local winds that blow in summer in the following states:
- (i) Kerala
  - (ii) West Bengal
- (c) Mention the geographical reason for each of the followings:
- (i) Patna receives heavier rain than Delhi.
  - (ii) Western Rajasthan receives no rain from the Arabian Sea branch of the South West Monsoon winds.
  - (iii) Mangalore is not cold even in the month of December.
- (d) Study the climate data given below and answer the questions that follow:

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Temperature in °C	25.0	25.5	26.3	27.1	30.0	36.2	36.0	35.9	30.3	29.3	27.0	24.6
Rainfall cm	24.5	23.1	15.0	2.4	0.1	11.0	9.3	4.0	10.5	4.0	14.5	20.4

- (i) Calculate the annual temperature range.
- (ii) What is the total annual rainfall?
- (iii) Presuming that the station is located in India, give a reason for its location being on the east coast or west coast of India. **[2014]**

**Q.3.**

- (a) Explain two factors that effect of climate of India giving a suitable example for each.
- (b) State two differences between the rainfalls that occur from June to September and that from December to February in North India.
- (c) Give a geographical reason for each of the following:
  - (i) Kerala has the longest rainy season.
  - (ii) The Konkan coast experience orographic rainfall.
  - (iii) The city of Kanpur in Uttar Pradesh has a higher range of temperature than that of Chennai in Tamil Nadu.
- (d) Study the climate data given below and answer the questions that follow:

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Temperature in °C	21.0	21.9	24.3	27.2	28.0	26.4	26.1	25.4	25.0	28.0	26.0	21.2
Rainfall cm	5.1	2.8	1.2	1.7	3.9	4.6	8.4	11.4	11.9	31.6	34.5	14.8

- (i) Identify the hottest month.
- (ii) Calculate the annual rainfall.
- (iii) Name the winds that bring the maximum rainfall to this city. **[2015]**

**Q.4.**

- (a) What is the name given to the climate of India? Mention any two factors responsible for such a type of climate.
- (b) Name the following:
  - (i) The winds that bring heavy rain to Cherrapunji
  - (ii) The local wind that bring a light rainfall to South India and is good for tea and coffee crops.
- (c) Give geographical reasons for each of the following:
  - (i) Kanpur has extreme temperature conditions.
  - (ii) Kochi is warmer than Mumbai even though both lie on the western coast of India.
  - (iii) The Ganga Plains gets the monsoon rain much later than the west coast of India.
- (d) Study the climatic data of station x given below and answer the questions that follow:

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Temperature in °C	24.5	25.7	27.7	28.4	30.0	32.5	31.0	30.2	29.8	28.0	25.9	24.7
Rainfall cm	4.6	1.6	1.7	2.4	2.8	4.6	8.6	11.4	11.8	30.6	35.0	13.9

- (i) Calculate the total annual rainfall experienced by the station.
- (ii) What is the annual range of temperature?
- (iii) On which coast of India does the station lie? Give reason for your answer. **[2016]**

**Q.5.**

- (a) Mention the four seasons that prevail in India stating the months for each.
- (b) State the agricultural benefits derived from:
- (i) The Westerly Depressions in Punjab.
  - (ii) The Kalbaisakhi in Assam.
- (c) Give a reason for each of the following:
- (i) Kolkata receives heavier rain than Lucknow.
  - (ii) The Summer Monsoon winds blows over the Arabian Sea from the SouthWest.
  - (iii) Thar is a desert.
- (d) Study the climatic data given below and answer the questions that follow:

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Temperature in °C	12.0	25.5	26.3	27.1	30.0	36.2	36.0	35.9	30.3	28.4	21.0.	16.6
Rainfall cm	1.5.	0.1	0.0	1.4	1.1	21.0	25.3.	27.2	24.0	9.45	1.5	0.4

- (i) What is the annual range temperature of the station?
- (ii) What is the total annual rainfall experienced by the station?
- (iii) Why would it be correct to presume that the station lies in the interior and not on the coast?

**[2017]**