



# **GEOGRAPHY**

## **BOOKS - FULL MARKS GEOGRAPHY (HINGLISH)**

### **WORLD CLIMATE AND CLIMATE CHANGE**

**Ncert Textbook Questions With Answers**

1. Which one of the following is suitable for Koeppen's "A" type of climate?

A. High rainfall in all the months

B. Mean monthly temperature of the coldest month more than freezing point

C. Mean monthly temperature of all the months more than  $18^{\circ}\text{C}$

D. Average temperature for all the months below  $10^{\circ}\text{C}$

**Answer: A**



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2. Koeppen's system of classification of climates can be termed as:

A. Applied

B. Systematic

C. Genetic

D. Empirical

**Answer: D**



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3. Most of the Indian Peninsula will be grouped according to Koeppen's system under:

A. "Af"

B. "BSh"

C. "Cfb"

D. "Am"

**Answer: D**



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4. Which one of the following years is supposed to have recorded the warmest temperature the world over?

A. 1990

B. 1998

C. 1885

D. 1950

**Answer: B**



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5. Which one of the following groups of four climates represents humid conditions?

A. A-B-C-E

B. A-C-D-E

C. B-C-D-E

D. A-C-D-F

**Answer: B**



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6. Which two climatic variables are used by Koeppen for classification of the climate?



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7. How is the "genetic" system of classification different from the "empirical one"?



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8. Which types of climates have very low range of temperature?

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9. What type of climatic conditions would prevail if the sun spots increase?

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**10.** Make a comparison of the climatic conditions between the "A" and "B" types of climate.



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**11.** What type of vegetation would you find in the "C" and "A" type(s) of climate?



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**12.** What do you understand by the term "Greenhouse Gases"? Make a list of greenhouse gases.



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**13.** Collect information about Kyoto declaration related to global climate changes.



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# Additional Questions With Answers | Multiple Choice Questions

1. What kind of climate is expressed by the letter code- BSh?

- A. Tropical Dry
- B. Tropical Monsoon
- C. Subtropical Dry Steppe
- D. Mid Latitude Climate

**Answer: C**





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2. What kind of climate is expressed by the letter code- ET?

A. Humid subtropical

B. Mediterranean(Cs)

C. Marine west coast

D. Tundra

**Answer: D**



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3. According to Koeppen, what is the average temperature of dry tropical climate?

A. More than 20°C

B. More than 18°C

C. More than 40°C

D. More than 10°C

**Answer: B**



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4. During the 1930s, severe drought occurred in southwestern Great Plains of the United States. What is it called?

A. Famine area

B. Barren area

C. Dust bowl

D. Dust flower

**Answer: C**



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5. Which of the following area come under tropical wet climate?

A. Amazon Basin in South America

B. Western equatorial Africa

C. Islands of East Indies.

D. All of the above

**Answer: D**



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6. Which protocol was held for reducing the emission of GHGs into the atmosphere in 1997?

A. Reid Jenero Earth Summit

B. Johnsonburg meet

C. Kyoto Protocol

D. Copenhagen Meet

**Answer: C**



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7. In 8000 BC how was the climate of Rajasthan?

- A. Humid and cold
- B. Dry and warm
- C. Dry and cold
- D. Humid and warm

**Answer: A**



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8. In the geological past, how was the earth's climate about 500-300 million years ago, through the Cambrian, Ordovician and Silurian periods?

A. Humid

B. Warm

C. Cold

D. Dry

**Answer: B**



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9. Which of the following is not a greenhouse gas?

- A. Carbon dioxide
- B. Chlorofluorocarbons
- C. Methane
- D. Oxygen

**Answer: D**



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10. What absorbs ultra-violet rays in stratosphere?

A. Ozone

B. Ions

C. Methane

D. Nitrogen

**Answer: A**



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**11.** Europe witnessed what kind of experiences from 1550 to about 1850?

A. Excess summer season

B. Little Ice age

C. Long dry age

D. Long humid age

**Answer: B**



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12. What is thrown in atmosphere by volcanic eruptions?

A. Aerosols

B. Solid waste

C. Alcohol

D. Carbon monoxide

**Answer: A**



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13. Which type of climate exist in Plateau Station , Antarctica , 79°S according to Koeppen?

A. Tundra climate

B. Ice cap climate

C. Taiga climate

D. Cold climate with roots

**Answer: B**



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**14.** The most important anthropogenic effect on the climate is the increasing trend in the concentration of greenhouse gases in the atmosphere. What can happen because of it?

- A. Global warming
- B. Air pollution
- C. Water pollution
- D. Land degradation

**Answer: A**



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15. At which place the highest shade temperature of  $58^{\circ}\text{C}$  was recorded in Libya on 13 September 1922?

- A. Tripoli
- B. Al Aziziyah
- C. Taiwan
- D. Tikari

**Answer: B**



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## Additional Questions With Answers Ii Table Based Question

1. Complete the following table by writing appropriate answer:



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## Additional Questions With Answers Iii Very Short Answer Type Questions

1. In how many categories can we classify type-A climate according to Koeppen?



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2. In how many groups has Koeppen classified the climate?



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3. In which areas is tropical climate found?

What are its features?



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4. What is the astronomical theory of Millankovitch oscillations?



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5. How does volcano affect the climate?



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6. Explain about tundra climate.



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7. Explain about humid subtropical climate.



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8. What is Kyoto Protocol?



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9. In how many groups has warm temperate climates been divided?



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## Additional Questions With Answers Iv Short Answer Type Questions

1. In which areas do we find tropical humid (Af) climate? What are its features?



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2. Explain about tropical wet and dry climate (Aw).



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3. Explain about Mediterranean Climate (Cs).



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4. Explain about humid sub tropical climate (Cfa).



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5. In which areas do we find Marine west coast climate? Explain about the features of this climate?



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# Additional Questions With Answers V Long Answer Type Questions

1. Explain the major climate categories by Koeppen.



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2. Explain the climatic changes that has taken place since ancient times. Also explain its causes.



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3. Explain about Polar climate (E).



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4. Explain about Cold snow forest climates (D).



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5. Write a detailed note on Tropical monsoon climate (Am).



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## Additional Questions With Answers Vi Hots Questions

1. Explain about that region where there is no permanent settlements for human beings.



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2. Give the letter codes used by Koeppen for following types of climates.

- (i) Tropical Wet
- (ii) Sub tropical steppe
- (iii) Humid Subtropical
- (iv) Humid Continental
- (v) Polar Ice cap
- (vi) Mid Latitude desert
- (vii) Subarctic
- (viii) Highlands with snow cover



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3. Which letter code did Koeppen use for following temperature ranges?

(i) Average temperature of the coldest month is  $18^{\circ}$  or higher.

(ii) Average temperature for all months is below  $10^{\circ}$  C.

(iii) Average temperature of the coldest month is  $-3^{\circ}$  or lower.

(iv) Average temperature of the coldest month is higher than  $-3^{\circ}$  but less than  $18^{\circ}$ .



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## Additional Questions With Answers Vii Map Skill

1. Show all climatic zones on a physical map of world.



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## Test Assignment

1. What do you understand by greenhouse effect ?



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2. What do you mean by global warming?



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3. Answer the following questions in 30 words.

Name two areas of Ice cap climate.



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