

Revision of Atmosphere – Climate and Weather

Atmosphere, Temperature patterns, Rain, Fog, Clouds, Ozone layer, Greenhouse effect, Global climate change

1. Draw the structure of the Earth’s atmosphere and label its layers:

2. Write 2 differences between the terms weather and climate

Weather:

- a)
- b)

Climate:

- a)
- b)

3. Give an example of measuring the temperature/humidity/rainfall/air pressure/wind. Write also the proper units of measuring the component of atmosphere.

Appliance:

Units:

4. Mark all the possible factors which don’t influence the Earth’s temperature:

- latitude insolation insulation kangaroos continentality
- rural areas altitude aspect winds ocean currents

5. Is next statement correct? (yes/no) Justify Your answer – why does/does not it happen.
“Deserts usually occur nearby cold ocean currents.”

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6. Give 2 examples of warm ocean currents:

- 1.
- 2.

7. Choose one Earth’s climatic zone and match one vegetation cover to it.

Climatic zone: - *Vegetation cover:*

8. Draw a simple circulation cell according to global circulation of the atmosphere.

9. Draw vertical zonality of vegetation due to increasing altitude.

10. Is next statement correct? (yes/no) Justify Your answer – why does/does not it happen.
“Moscow has large temperature extremes all year round.”

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11. Explain why has London milder winter in comparison with Prague.

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12. Much hotter summer we can expect in regions such as:

- Mauritania, Taklamakan desert, Iceland, Tajikistan
- Chad, Galápagos islands, Oman, New Zealand
- Namibia, Morocco, Spain, Colombia

13. Outline (draw and describe) the process of relief/frontal/convection/monsoon rain.

14. In Bangladesh, much more precipitation occurs during:

- summer season
- winter season

15. Explain the term fog/mist/haze.

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16. Explain the term radiation/advection/valley/upslope/steam/precipitation fog.

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17. Classify the clouds by altitude:

- a)
- b)
- c)

18. Classify the clouds by appearance:

- a)
- b)
- c)

19. Anticyclone means:

- the air mass with high atmospheric pressure
- the air mass with low atmospheric pressure

20. Depression means:

- the air mass with high atmospheric pressure
- the air mass with low atmospheric pressure

21. In southern hemisphere, depression has:

an anticlockwise direction

a clockwise direction

22. In northern hemisphere, anticyclone has:

an anticlockwise direction

a clockwise direction

23. Write the name of units measuring amount of ozone in the atmosphere:

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24. Draw and describe the process of greenhouse effect:

25. Explain the term global warming:

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26. Which of the following countries will not be affected so much by rising of sea level?

Maldives

Mongolia

Andaman and Nicobar islands

Netherlands

USA

27. Give 2 examples of greenhouse gases:

1.

2.

28. Write 3 possible negative impacts of global warming:

1.

2.

3.

29. Write 2 positive impacts of global warming:

➤

➤

30. What's Your opinion to global warming? In Your own words write Your opinion to possible tendencies of global climate change development

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31. Write a difference between greenhouse effect and global climate change.

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