

1. Which picture shows desurbanisation best?

- ☒ A a)
- ☐ B b)
- ☐ C c)
- ☐ D d)



2. Where is 0°N 0°W?

- ☐ A North Pole
- ☐ B Equator Pacific
- ☒ C Equator Atlantic
- ☐ D South Pole

3. What is meant by the term „green revolution“?

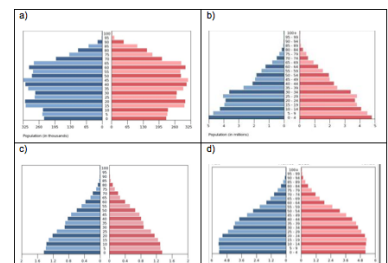
- ☐ A ecological movement
- ☒ B agricultural innovations
- ☐ C political movement in arab countries
- ☐ D discovery of biofuels

4. What is meant by the abbreviation HDI?

- ☒ A human development index
- ☐ B heavily destroying industry
- ☐ C humidity-drought interference
- ☐ D hole depth indicator

5. Which population pyramid fits Sweden best?

- ☒ A a)
- ☐ B b)
- ☐ C c)
- ☐ D d)



6. Which process doesn't lead to a crucial warming within the Earth (interior)?

- ☐ A Impacts of meteorites
- ☒ B Supernovas
- ☐ C Compression of tare weight
- ☐ D Decay of atoms

7. Which of the following seismic wave is the fastest?

- ☒ A P-wave
- ☐ B S-wave
- ☐ C Rayleigh-wave
- ☐ D Love-wave

8. How many observations stations one need at least to locate the epicentre of an earthquake?

- ☐ A two
- ☒ B three
- ☐ C four
- ☐ D five

9. A tropical cyclone develops...

- ☐ A over land
- ☒ B over water
- ☐ C at the equator
- ☐ D also in Switzerland

10. Which month in Switzerland would be affected the most by an ultraplinian volcanic eruption?

- ☐ A March
- ☒ B June
- ☐ C October
- ☐ D December

11. Which one of the following volcanic ejecta is not pyroclastic material?

- ☐ A ash
- ☐ B lava bombs
- ☒ C pillow lava
- ☐ D lapilli

12. When two oceanic plates converge a(n) ... is formed.

- ☒ A island arc with a deep-sea trench
- ☐ B lofty mountain range with a width of over 400 kilometer
- ☐ C mid-ocean ridge
- ☐ D the magnetic field of the Earth

13. In geology the lithosphere is a part that...

- ☐ A belongs to the Earth's crust only
- ☒ B belongs to the Earth's crust and earth's mantle
- ☐ C belongs to the Earth's mantle only
- ☐ D to a minor degree belongs to the Earth's core

14. The oceanic crust...

- ☐ A often consists of gneiss
- ☐ B often consists of granite
- ☐ C is thicker than the continental crust
- ☒ D is denser than the continental crust

15. Which of the following statements about the Earth's water cycle is true?

- ☒ A The amount of evaporation is bigger than the runoff.
- ☐ B The amount of runoff is bigger than evaporation.
- ☐ C The amount of runoff is bigger than precipitation.
- ☐ D The amount of runoff and precipitation is even.

16. Which of the following statements is false?

- ☐ A Over 96% of the global water volume is saltwater.
- ☐ B Most of the fresh water is located in the Antarctic.
- ☐ C Approximately one percent of the water exists as groundwater.
- ☒ D Worldwide, surface water is a bigger part of fresh water than groundwater.

17. Which factor affects the water footprint of an average Swiss citizen the most?

- ☐ A bathing (bathtub, pool, public swimming baths)
- ☒ B meat consumption
- ☐ C use of the washing mashine
- ☐ D leaky pipes and letting the water run while brushing teeth

18. Why does it rain more often in Switzerland than in Belgium?

- ☐ A because Switzerland has a much bigger area
- ☐ B because Switzerland is closer to the sea
- ☐ C because Switzerland is further south
- ☒ D because Switzerland is higher in altitude

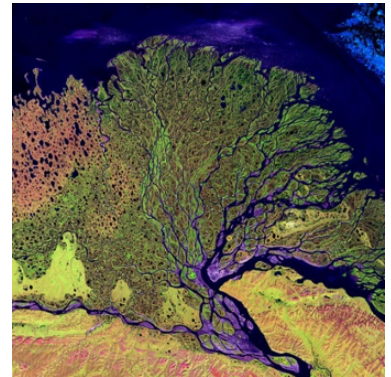
19. The following sedimentation is typical for...

- ☒ A a glacier
- ☐ B a lake
- ☐ C a torrent
- ☐ D a river in middle course



20. What is shown in the picture?

- ☐ A a V-shaped valley
- ☒ B a delta
- ☐ C a catchment area of a river
- ☐ D the groundwater quantity



21. A hurricane often has...

- ☐ A a nose
- ☒ B an eye
- ☐ C an ear
- ☐ D a foot

22. The ... is a high cloud.

- ☐ A nimbostratus
- ☐ B cumulonimbus
- ☐ C altocumulus
- ☒ D cirrostratus

23. The ... is a rain cloud.

- ☐ A cirrus
- ☒ B nimbostratus
- ☐ C cirrostratus
- ☐ D stratocumulus

24. What is the most common gas in the atmosphere?

- ☐ A O<sub>2</sub>
- ☐ B H<sub>2</sub>O
- ☒ C N<sub>2</sub>
- ☐ D CO<sub>2</sub>

25. When it is spring in the northern hemisphere, it is ... in the southern hemisphere.

- ☐ A spring
- ☐ B summer
- ☒ C autumn
- ☐ D winter

26. What is the ITC(Z) not?

- ☐ A a low pressure trough in the tropics
- ☐ B an area where winds converge
- ☐ C an area with a lot of precipitation
- ☒ D a semi-desert-like area

27. Why do the tourists on the island Sylt turn their beach chairs away from the sea?

- ☐ A because of the katabatic wind
- ☐ B because of the offshore wind
- ☒ C because of the onshore wind
- ☐ D because of the upcast wind

28. When two fronts merge it is called...

- ☐ A a frontal aggregation
- ☐ B a cold front
- ☒ C an occlusion
- ☐ D warm front

29. How many °C is it approximately warmer on Earth because of the anthropogenic greenhouse effect?

- ☒ A 1 °C
- ☐ B 4 °C
- ☐ C 15 °C
- ☐ D 33 °C

30. Which is the most important greenhouse gas of the natural greenhouse effect?

- ☐ A CH<sub>4</sub>
- ☒ B H<sub>2</sub>O
- ☐ C N<sub>2</sub>O
- ☐ D C<sub>2</sub>H<sub>6</sub>O

31. Which of the following is not a cause for the anthropogenic greenhouse effect?

- ☐ A population growth
- ☐ B combustion of fossil fuels
- ☐ C deforestation
- ☒ D hunger in the world

32. Where is the global warming going to be the most severe?

- ☐ A here in europe
- ☐ B nere the equator
- ☒ C in the polar regions
- ☐ D it can not be estimated yet

33. The altitude of the sun is the same in autumn as in...

- ☒ A spring
- ☐ B summer
- ☐ C late spring and early summer
- ☐ D winter

34. When is the sun closest to Switzerland?

- ☒ A in January
- ☐ B in December
- ☐ C in July
- ☐ D in June

**35. Why is it colder in the polar regions than in Switzerland?**

- ☐ A because the polar regions are further away from the sun
- ☐ B because of the heavy glaciation and the oceanic currents
- ☒ C because the sun's rays arrive at a less steep angle
- ☐ D because of the polar night

**36. How big is the angle of the axial tilt?**

- ☐ A ca.  $17\frac{3}{4}^{\circ}$
- ☒ B ca.  $23\frac{1}{2}^{\circ}$
- ☐ C ca.  $27^{\circ}$
- ☐ D ca.  $27\frac{1}{2}^{\circ}$

**37. When is it most likely to rain in the tropical part of the Sahara?**

- ☐ A in January
- ☐ B in April
- ☒ C in July
- ☐ D in October

**38. What does the word "subsistence economy" mean?**

- ☐ A an african restaurant
- ☐ B a suboptimal economic system
- ☐ C illegal economy
- ☒ D self-support

**39. Another word for biodiversity is...**

- ☐ A bio fuel
- ☐ B biologist
- ☐ C ethnic group
- ☒ D variety of species

**40. Braindrain is a(n) ... characteristic.**

- ☒ A economic
- ☐ B ecological
- ☐ C demographic
- ☐ D social