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# ESC01\_CA1 (EVEN Semester 2021-22)

## Instructions:

The questions with (\*) are mandatory questions, and accordingly, the answers will not get submitted if anyone skips responding to those questions. Moreover, press the submit button before the scheduled time (as the answers will not get submitted by themselves), if anyone does not press the submit button before time, then the link will get deactivated and the student will be considered absent.

...

\* Required

1. NAME OF THE STUDENT \*

2. ROLL NUMBER OF THE STUDENT \*

3. REGISTRATION NUMBER OF THE STUDENT \*

4. SECTION OF THE STUDENT \*

☐ Section A

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- ☐ Section B
- ☐ Section C
- ☐ Section D
- ☐ Section E

5. Which is not the effects of global warming

- (a) Thawing of frozen ground
- (b) Change in vegetation pattern
- (c) Change in hydrologic cycle
- (d) Ozone layer depletion

(1.5 Points)

- ☐ (a) and (c)
- ☐ (b) and (d)
- ☐ (b) only
- ☒ (d) only

6. \_\_\_\_\_ % of total radiation directly reaches to the surface of the earth.

(0.5 Points)

- ☐ 16
- ☐ 25
- ☐ 26
- ☐ 51

7. Name the seismic wave with longer wavelength.

(1 Point)

Enter your answer

8. Choose the incorrect statement(s)

- (a) Crop yields and quality will be adversely affected by more UV radiation.
- (b) Some inanimate materials such as paint, buildings, roads are more susceptible to deterioration when they are exposed to increased levels of UV radiation.
- (c) UV radiation has no negative impact on human immune system
- (d) Exposure to UV radiation will increase more cases of skin cancer.

(1.5 Points)

- ☐ (a) and (b)
- ☐ (a) and (c)
- ☐ (b) and (d)
- ☐ (b) and (c)

9. About 99.9% of the total mass of the atmosphere lies below a level of \_\_\_\_\_ km.

(0.5 Points)

- ☐ 12
- ☐ 50
- ☐ 80
- ☐ 900

10. What is the approximate age of the Earth?

(1 Point)

Enter your answer

11. Tick the correct one:

- (a) Troposphere: Environmental Lapse rate
- (b) Mesosphere: 50 to 80 km altitude
- (c) Ionosphere: consist of Stratosphere and Thermosphere
- (d) Stratopause: Maximum temperature than the other pauses.

(1.5 Points)

- ☐ (a), (b) and (c)
- ☐ (b), (c) and (d)
- ☐ (a), (b) and (d)
- ☐ (a), (c) and (d)

12. With the increase of altitude, the pressure ..... in the atmosphere

(0.5 Points)

- ☐ Increases
- ☐ Decreases
- ☐ Remains same
- ☐ None of these

13. .... is the most responsible for the greenhouse effect.

(0.5 Points)

- ☐ Carbon dioxide
- ☐ CFCs
- ☐ Water Vapour
- ☐ None of these

14. Name the seismic wave that can penetrate through any medium.

(1 Point)

Enter your answer

15. In the atmosphere, some radio signals are reflected back from the

(0.5 Points)

- ☐ Ionosphere
- ☐ Troposphere
- ☐ Exosphere
- ☐ Stratosphere

16. CFC-12 has \_\_\_\_\_ times the capacity of CO<sub>2</sub> to trap IR radiation.

(0.5 Points)

- ☐ 30
- ☐ 17500
- ☐ 20000

⌋

17. Chose the correct statement(s)

- (a) A very thin envelope of gases that surrounded the earth at the time of its formation.
- (b) About 600 billion years ago plants and animals were formed on the Earth.
- (c) The two probable sources of oxygen in the atmosphere are photodissociation of water molecule and evapotranspiration.
- (d) The evidence of oxygen in the ocean is noted between 2.5 and 3.0 billion years ago.

(1.5 Points)

- ☐ (a) and (b)
- ☐ (b) and (c)
- ☐ (c) and (d)
- ☐ (a) and (d)

18. .... % of insolation is responsible of terrestrial radiation.

(0.5 Points)

- ☐ 25%
- ☐ 26%
- ☐ 51%
- ☐ 100%

19. Maximum Wavelength of IR portion of terrestrial radiation is \_\_\_\_\_.

(0.5 Points)

- ☐ 0.483  $\mu\text{m}$
- ☐ 4.83  $\mu\text{m}$
- ☐ 9.66  $\mu\text{m}$
- ☐ 0.966  $\mu\text{m}$

20. Which of the following statement is/are correct regarding seismic waves?

- (i) P and S waves are body waves.
- (ii) P and S waves are longitudinal waves.
- (iii) P waves are transverse and S waves are longitudinal waves.
- (iv) P waves are longitudinal and S waves are transverse waves.
- (v) Surface waves are transverse waves

(1.5 Points)

- ☐ (i), (ii), (v)
- ☐ (i), (iii), (v)
- ☐ (i), (iv), (v)
- ☐ None of the options are correct

21. Normal Environmental Lapse rate is \_\_\_\_\_ $^{\circ}\text{C}/100\text{m}$ .

(0.5 Points)

- ☐ 0.065
- ☒ 0.65
- ☐ 6.5
- ☐ 65

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