

17.02.20

EVERWIN VIDHYASHRAM

STD: IX(Girls)

TT – Biology

Marks:25

I. Choose and write the correct option in the following questions:

1x2=2

1. Low visibility during cold weather is due to

- a) Unburnt carbon particles or hydrocarbons suspended in air
- b) Lack of adequate power supply
- c) Formation of fossil fuel
- d) None of these

2. Identify the gas that can result in the formation of acid rain

- a) Ozone
- b) Carbon monoxide
- c) Sulphurdioxide
- d) Chlorofluorocarbon

II. Write whether the following statements are true or false: 1x2=2

3. Winds develop due to uneven heating of earth.

4. 75% of earth's surface is covered with water.

III. Fill in the blanks:

1x2=2

5. Glaciers are a source of -----

6. Pattern of rainfall depends on the pattern of -----

IV. In the following question, a statement of Assertion is given and corresponding statement of Reason is given below it. Choose the correct option of the statements given below it: 1x1=1

7. Assertion [A] : Like earth, Moon and Venus also have atmosphere.
Reason [R]: The atmosphere on Moon and Venus mainly comprises of carbondioxide.

- a) Both A and R are true and R is the correct explanation for A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) Assertion is true but reason is false.
- d) Both Assertion and reason are false.

V. Write the following question in short: 1x1=1

8. What are the various abiotic components of biosphere?

VI. Answer the following questions in brief: 3x4=12

9. How do fossil fuels cause air pollution?

10. Name the stages of the life cycle of aquatic animals which are affected by change in temperature.

11. Mention three ways by which atmosphere regulates average temperature on earth.

12. Define biosphere. Name its components.

VII. Answer the following question in detail: 5x1=5

13. Explain in detail how human activities are responsible for water pollution?

(OR)

Describe in detail the formation of rain.

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STD: IX(Boys)

TT – Physics

Marks:25

I. Answer the following:

5x1=5

1. Sound cannot travel in -----
2. SI unit of frequency is -----
3. The distance between two crests or two consecutive troughs is called -----
4. Sound travels as a ----- wave through a material medium.
5. Pitch of a sound depends on its -----

II. Answer in Short:

5x3=15

6. How does the sound produced by a vibrating object in a medium reach your ear?
7. Derive the relation between velocity, wavelength and frequency.
8. Draw the wave form of i) Soft sound ii) Loud sound
iii) High pitched sound iv) Low pitched sound.
9. Explain how sound is produced by your school bell.
10. What is the range of frequency associated with
a) Infra sound b) Ultra sound c) Audible sound

III. Answer in detail:

1x5=5

11. A sound wave has a frequency of 4 kHz and wave length 70cm. How long will it take to travel 3.5km?