NEW ERA PUBLIC SCHOOL

Class :- 7th | Sub :- Science

M. Marks :- 80 | Term :- II

Attempt any six Questions from Part-A and five Questions from Part-B. Part C, D, E and F are compulsory.

PART- A

Long Answer Type Questions :- (Do any six)

Q1 :- Explain how temperature differences result in the movement of air.

Q2 :- Distinguish between regular and irregular reflection.

Q3 :- How is water useful to plants?

Q4 :- How are the populations of organisms in the environment kept under control?

Q5 :- What are decomposers? Explain the role that they play in a forest?

Q6 :- What are the characteristics of images formed by a plane mirror?

Q7 :- Explain how a cyclone develops.

(06 x 05 = 30)

PART- B

Short Answer Type Questions :- (Do any five)

Q1 :- What is air pressure?

Q2 :- How is lightning produced?

Q3 :- What is dispersion?

Q4 :- What is meant by the 'water cycle'?

Q5 :- List the three processes in the human body which require the presence of water?

Q6 :- Under what conditions are tropical rainforests usually found?

Q7 :- What is a food chain?

(05 x 03 = 15)

PART-C

Choose the correct option?

1. If a region is heated up more than its surroundings, a _____ develops above it.

(a) low pressure area (b) high pressure area (c) Lift (d) monsoon.

2. Which of these is seen only in a tornado?

(a) lightning (b) rotating wind funnel (c) eye (d) thunder

3. The rearview mirror in motor vehicles is a _____ mirror.

(a) concave (b) convex (c) plane (d) lens

4. A plane mirror always produces an image that is _____.

(a) virtual and inverted (b) real (c) real and inverted (d) virtual and erect.

5. Rainwater that doesnot seep through the soil but collects in waterbodies is called _____

(a) water table (b) surface water (c) frozen water (d) water cycle.

6. Water scarcity is due to _____
(a) population growth (b) increased use of water for agriculture (c) increased use of water by industry (d) all of the above.

7. The tallest layer in a forest is the _____
(a) canopy (b) understorey (c) overstorey (d) forest floor

8. Which of the following does a forest not do?
(a) supply oxygen (b) supply carbondioxide (c) cool the air (d) prevent soil erosion.

9. Which one of these donot pollute water?
(a) contaminants (b) industrial effluents (c) fertilisers (d) trees.

10. Which of these diseases is not caused by improper sanitation?
(a) hepatitis (b) cholera (c) heart attack (d) dysentery

11. The sand and grit that is removed from sewage is used in _____
(a) building houses (b) landfills (c) making water filters (d) playgrounds.

12. Sludge in a water treatment plant is disposed of by _____
(a) burning (b) dumping into water bodies (c) dumping into landfills (d) decomposing to form fertiliser and methane.

(12×1 = 12)

PART- D

Fill in the blanks:-

1. The central calm portion of a cyclone is called

its _____.

2. _____ images are erect, whereas _____ images are inverted.

3. Reflection of light by a smooth, polished surface is _____ reflection.

4. Buildings and roads reduce the _____ of water into the soil.

5. Using less water and preventing its pollution is called water _____.

6. The _____ layer receives maximum sunlight in a forest.

7. The waste water produced in our homes is called _____.

8. Decomposers add _____ to the soil.

(08 × 01 = 08)

PART- E

State whether the statements are True (T) or False (F):-

1. The atmospheric pressure in the regions near the equator is high.
2. Concave lenses are also called converging lenses.
3. Nearly 30% of the Earth's surface is covered with water.
4. Afforestation means to cut down all trees in an area.
5. Forests can exist in the temperate region.
6. Heterotrophs can make their own food.
7. Chemical toilets are a kind of onsite sewage disposal system.
8. Solid food remains should not be disposed of

in the kitchen sink.

(08 × 01 = 08)

PART - F

Draw a well labelled diagram of any two:-

(a) Global wind flow patterns

(b) The water cycle

(c) Food web.

(02 × 03½ = 07)