

# साधना देवी विद्यापीठ

Punjabi Colony (Dharampur) Samastipur. 848101 (Bihar)

Final Examination- 2019-20

Class :- VII  
Sub :- Science

Time :- 2.30hrs  
F.M. :-100

## Phy + Che

1. Fill in the blanks. 10
- ..... layer is also called the R horizon
  - ..... and ..... horizons are mixed by farmers while ploughing.
  - Air expands on .....
  - Hot air moves ..... and cold air ..... its place.
  - A concave mirror always produces a ..... and ..... image.
  - A plane mirror shows ..... inversion of image.
  - Aquifers are a source of .....
  - The upper layer of underground water is called .....
  - A ..... lens is thicker at the centre than the edges.
  - A ..... Splits sunlights into seven colours.
2. Write True or False. 10
- Terrace farming helps in soil erosion.
  - Acid rain does not cause soil pollution.
  - Warm air is lighter than cold air.
  - The speed of the wind is measured by a wind vane.
  - Light travels in a straight line.
  - The spectrum has nine colours.
  - There is no need to conserve water.
  - 97 percent of the water on the earth is freshwater.
  - Industrial waste may contain harmful chemicals.
  - Cities do not have wastewater treatment plants.
3. Give reasons for the following. 10
- A concave mirror is used as a dentist's mirror.
  - We cannot see a light source through a bent tube.
  - Soil is a non - renewable natural resource.
  - Plastic and metal should not be thrown in the soil.
  - old people wear spectacles having convex lenses.
4. Match the following - 5
- |                                |                            |
|--------------------------------|----------------------------|
| (i) Direction of wind          | (a) Extratropical cyclones |
| (ii) Anemometer                | (b) Lighter                |
| (iii) Warm air                 | (c) Heavier                |
| (iv) Cold air                  | (d) Speed of wind          |
| (v) Cyclone in mid - latitudes | (e) Wind vane              |

5. Give one word for the following. 5
- (i) A cyclone in South - East Asia.
  - (ii) A low pressure area in the atmosphere in which the wind the move in spirally.
  - (iii) The calm, cloudless are of a cyclone.
  - (iv) A storm whose wind speed is around 64 - 80km/h.
  - (v) Cyclones of the temperate latitudes, espicially in Europe.
6. Define the following. 5
- (i) Hurricane
  - (ii) Drip irrigation
  - (iii) Sewage
  - (iv) Weathering
  - (v) Tornado
7. Short answer type question. 10
- (i) List the different components of soil.
  - (ii) What is atmospheric pressure ?
  - (iii) Differentiate between Reflection and Refraction.
  - (iv) Write two properties of pure water.
  - (v) What is wastewater ? What does it contain ?
8. Long answer type questions. 15
- (i) What is weathering ? Explain the different types of weathering.
  - (ii) What is a cyclone ? How is it formed ?
  - (iii) State three uses each of concave and convex mirror.
  - (iv) Differentiate between precipitation and condensation.
  - (v) What is rainwater harvesting system ? How does it help to conserve water ?

### Bio

1. Give one word for the following. 5
- (i) The protein which absorbs oxygen in the blood -
  - (ii) The blood vessels which carry blood rich in carbondioxide -
  - (iii) A single - called reproductive body which is produced by fungus -
  - (iv) Reproductive cells produced by male and female plants -
  - (v) Large scale felling of trees -
2. Short answer. 9
- (i) Why are forest called the lungs of the earth ?
  - (ii) What is the forest floor ? What are its characteristics ?
  - (iii) What are the disadvantages of vegetative propagation ?
  - (iv) Why do seeds require water for germination ?
  - (v) Explain the structure of nephron.
  - (vi) Name the tiny filtering unit present in kidney.
3. Long answer type questions. 8
- (a) With the help of a labelled diagram describe the excretory system of human beings.
  - (b) Describe the different kinds of asexual reproduction with examples.
4. Different between. 8
- |                                     |                             |
|-------------------------------------|-----------------------------|
| (a) fission and budding             | (b) ovule and ovary         |
| (c) afforestation and deforestation | (d) auricles and ventricles |