

**DELHI PUBLIC SCHOOL, JAMMU**  
**REVISION SHEET FOR CYCLE TEST -II**  
**(SESSION 2019-20)**

**Class: VII**

**Subject: Science**

**Syllabus**

- 1. Soil**
- 2. Light**
- 3. Transportation in Plants and Animals**
- 4. Electric Current and its effects**

**General instructions:**

1. The question paper consists of three sections A, B and C. The sections are to be attempted separately.  
All questions are compulsory.
2. All questions in Section A are one mark question comprising VSA type, assertion-reason type questions and MCQs.
3. All questions in section B are three marks, short answer type questions. These are to be answered in 50 – 60 words each
4. All questions in section C are five marks, long answer type questions. These are to be answered in 80 – 90 words each.
5. This question paper consists of a total of 18 questions.

**SECTION-A**

**Q1** Define Circuit diagram.

**Q2** What is the function of septum in human heart?

**Q3** Answer questions numbers 3(a)-3(c) on the basis of your understanding of the following paragraph and the related studied concepts.

Different types of soils are found at different places. The main factors that affect soil profile and bring about changes in the soil structure are characteristics of parent rock, cover and climate.

Wind, rainfall, temperature, Sunlight and humidity are some of the important climatic factors. The type of soil as well as the climatic factors determine the various types of vegetation and crops that might grow in any region.

**3(a)** Which soil is best for growing paddy?

**3(b)** What are the main factors that affect soil profile?

**3(c)** What is soil profile?

For question number 4, two statements are given—one labelled Assertion(A) and the other labelled reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) &

(iv) as given below.

i) Both A and R are true and R is correct explanation of the assertion.

ii) Both A and R are true but R is not the correct explanation of the assertion.

iii) A is true but R is false.

iv) A is false but R is true.

**Q4** Assertion: A band of seven colours is formed when white light passes through tiny water droplets.

Reason: A rainbow is formed by the dispersion of light.

**Q5** Which soil absorbs water the most?

a) Sandy soil

c) Loamy soil

- b) Clayey soil
- d) Mixed soil

**Q6** The device used to prevent the flow of electric current is

- a) Fuse
- c) Bulb
- b) Switch
- d) Coil

**SECTION B**

**Short Answer Type Questions**

**Q7** Discuss any two applications of the Heating Effect of Current

OR

What is Heating Effect of Electric Current? Discuss the two factors on which the amount of heat produced in a wire depends

**Q8** What is overloading? Why is a fuse wire necessary in a circuit? How does it work?

**Q9** What are the characteristics of the image formed by a Plane mirror?

**Q10** Draw the ray diagrams for Concave mirror and write the nature, position and size of image formed When the object is placed

- a) At C
- b) At F

**Q11** How can you distinguish between a plane mirror, A concave mirror and a convex mirror without touching them?

mirror

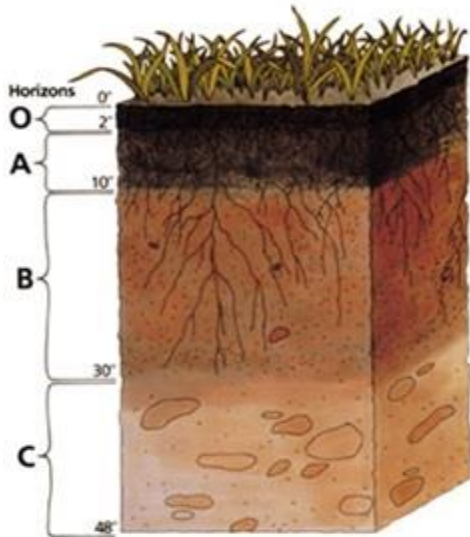
**Q12** Draw a well labelled diagram of Human heart.

**Q13** Write the differences between arteries and veins.

**Q14** Describe an experiment to show that soil contains water.

**Q15**

- a) Identify the Diagram and label the A,B,C & O parts
- b) Which layer is rich in soluble minerals and iron oxides?
- c) Which layer lacks humus and is infertile?



**SECTION –C**

**Long Answer Type Questions**

**Q16 a)** What is meant by dispersion of light?

b) With the help of a diagram, show the dispersion of white light of a prism.

c) Name the natural phenomenon which is caused by the dispersion of light.

OR

Define the following terms:

- a) Real image
- b) Principal Focus of Spherical mirror
- c) Concave lens
- d) Convex mirror
- e) Virtual image

**Q17** Discuss the construction and working of an Electric bell.

**Q18** Describe an activity to show phloem transports food produced by leaves.