

## **Holiday Homework**

### **Class-VIII**

#### **Subject-Science**

- 1. Learn Chapter 1 to 3 & 11 with assignment questions.**
- 2. Prepare a project report on the topic given below**  
Pull out a leguminous plant ,without damaging its roots . wash the roots and observe. You will see little swellings .These swellings are called nodules and formed due to presence of nitrogen fixing bacteria.
- 3. Make a project File on the diseases caused by different microorganism in humans, plants and animals Like ( cow & Dog).**
  - Find out the names of diseases for which vaccinations are available and the age at which they have to be given to the child.
  - Collect information about various vaccinations that are available for domestic animals (like cows) and pets (like dogs).

You can take idea from following outlines

- Type of the micro organism Like Type of microorganism causing AIDS is virus
- Name of micro organism (Name of virus is HIV)
- Diseases caused
- Symptoms
- Pictures
- Modes of transmission
- Preventive Measures

- 4. Do the assignment in separate notebook .**

Read the following and answer the questions that follow:

**Q1** Coming back from school, Anudit asked his mother to explain to him the concepts related to the addition/subtraction of forces acting along the same line. Mother explained to him the reason for adding such forces when they act along the same direction and of subtracting on from another when they act along opposite directions. She went on to say that in similar manner we get an added up and enhanced effect, when we use our strength, hard work and attention, all together for achieving or desired goal.

Write down the magnitude and direction of the net force in the following situation:

**(a)** In a tug of war, team A is applying force of 100 N along the east direction and team B is applying force of 200 N along the west direction

**(b)** A boy is pushing a box with a force 100 N towards left by overcoming force of friction that has a magnitude of 50 N.

**Q2** Write how the following methods of preservation work. Also, add two examples of foods that can be preserved by each of these methods.

Method	How it works	Examples (of food preserved)
Pickling		
Ozone Treatment		

Method	How it works	Examples (of food preserved)
Drying		
Adding Preservatives		
Canning		
Vacuum packing		
Freezing		
Radiation		
Salting		

Q3. Situation: Your train stopped at a railway station and you saw that porters place a round piece of cloth on their heads, when they have to carry heavy loads.

How does it affect the pressure on their head?

Q4. Define the term transplantation? List any two advantages it offers to the farmer.

Q5. Explain why, when a person stands on a cushion, the depression is much more than when he lies down on it.

Q6. Explain why, water comes out more slowly from an upstairs tap than from a similar tap downstairs.

Q7. Mohan bought samosas from a road-side vendor and ate it. After sometime he felt nausea and started vomiting. He had severe pain in the abdominal region and suffered from diarrhoea. What could be the reason for his condition? What is it called? How could it be prevented?

Q8. The farmers of a village are celebrating the harvest festival of Baisakhi along with their families. They are dancing and singing traditional songs.

(a) What is harvesting? Why do farmers celebrate Baisakhi?

(b) What do we learn from celebrating festivals?

**Q9.** In the above image, which among the three tubes will release water with greater pressure and Why ?

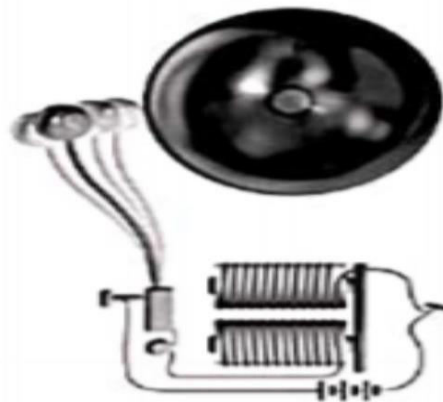


**Q10.** Draw a neat labelled diagram of nitrogen cycle in nature.

**Q11.** Answer the following

- (i) Name the form of polyester which is replacing materials like glass and used for making bottles and jars.
- (ii) Name the fibre obtained by the chemical treatment of wood pulp (or cellulose).
- (iii) Name two or three items that can be made from nylon

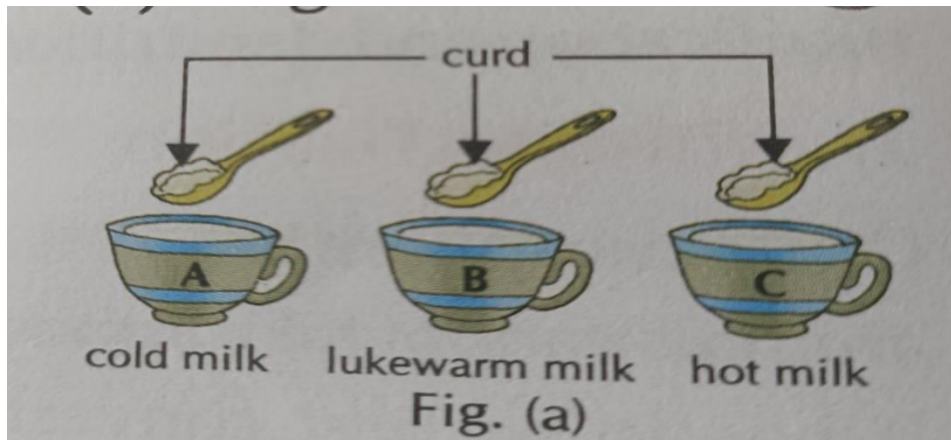
**Q12.**



In above image, when the circuit is completed, the hammer strikes the gong. Which of the following forces is responsible for the movement of hammer?

Q13. Look at the figure given alongside and tick (✓) the correct options:

In Fig. (a),



(i) curd is formed only in

(a) Cup A

(b) Cup B

(c) Cup C

(d) all three cups

(ii) is not formed in cup C because bacteria are

(a) active

(b) inactive

(c) killed

(d) none of these

Q14. Where is pressure greater, 10m or 20m below the surface of sea ? Give reason.

Q15. Explain why (a) a heavy truck is fitted with six to fourteen tyres,

(b) skiers use long flat skis to slide over snow

(c) foundations of high-rise buildings are kept wide.

(d) School bags are with wide straps to carry them.

(e) The walls of a dam are thicker near the bottom than at the top.