Subject: Science

Worksheets

Section – A: Physics

1) To accelerate an object to a rate of 2m/s2, 10 N force is required. Find the mass of object.

2) If 1000 N force is required to accelerate an object to the rate of 5m/s2, what will be the weight of the object?

3) Differentiate between mass and weight?

4) A scooter is moving with a velocity of 20m/s when brakes are applied. The mass of the scooter and the rider is 180Kg. The constant force applied by the brakes is 500N.

a) How long should the brakes be applied to make the scooter come to a halt?

b) How far does the scooter travel before it comes to rest?

5) State Newton's third law of motion and how does it explain the walking of man on the ground?

6) When a carpet is beaten with a stick, dust comes out of it. Explain

7) Why is it advised to tie any luggage kept on the roof of a bus with a rope?

Section – C: Biology

1. Name one site of occurrence of the following tissues in a living plant body?

a. Cambium

b. Xylem

c. Chlorenchyma

2. Mention the distinguishing feature of parenchyma, Collenchyma and sclerenchyma tissue/cell.

3. Sieve tube cells of phloem tissue do not possess nuclei in mature state, still they remain alive. Give reason.

4. Write down any three differences between smooth, striated and cardiac muscles.

5. Enumerate the factors affecting stored grains and describe their preventive measures.

6. On visiting a nearby Cattle yard, a student found three different cross breeds of cows. They are Karan Fries, Frieswal & Karan Swiss. Can you name the breed whose cross breeds are there?

7. Explain composite fish culture system with example.

8. What is mixed cropping? Mention the criteria to be adopted in selecting the component crops for mixed cropping. Mention any two advantages of mixed cropping.