PRISM WORLD

Std.: 9 (English) **Science 1** **Marks: 20**

Date: **Time: 1 hour**

Chapter: 1 to 3

Q.1 A) Choose the correct alternative and rewrite the sentence **(1)**

A car is moving with a velocity of 50km/hr for 5 hours, is an example of .....

a. zero acceleration
b. positive acceleration
c. negative acceleration
d. retardation

B) Answer the following questions. **(2)**

1) Find co-related terms

Conductors : free electrons : : ..... : No free electrons

2) Find the odd man out:

2) Rubber, copper, wood, glass

Q.2 A) Give scientific reasons (Any one) **(2)**

1) A fast bowler takes a run–up before bowling a ball.

2) An electric fan keeps on rotating for some time even after it is switched off.

B) Answer the following questions. (Any two) **(4)**

1) Write short notes

1) Newton's second law of motion (momentum)

2) Distinguish between

OHMIC Conductor and Non-OHMIC Conductor

3) Why does the K.E. of a body increases by nine times if the velocity of a body is increased by three times.

Q.3 Answer the following questions. (Any two) **(6)**

1) Explain why does a blacksmith uses a hammer heavier than the one used by a goldsmith.

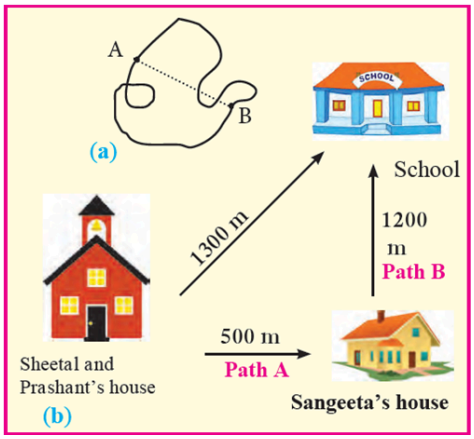
2)

Three resistors of 4 Ω, 6 Ω, and 8$\Omega$are connected in parallel, and the combination is

connected in series with a resistance 3Ω and a 6 V battery. What is the current in the

circuit?

3)



i. Measure the distance between points A and B in different ways as shown in the figure(a)

ii. Now measure the distance along the dotted line. Which distance is correct according to you and why?

iii. Sheetal first went to her friend Sangeeta's house on her way to school. Prashant went straight from house to school. Both are walking with the same speed. Who will take less time to reach the school and why?

Q.4 Answer the following questions. (Any one) **(5)**

1) Derive the expression for the resisters connected in series combination.

2) Write the general expression for work in terms of force, displacement & angle between two. Hence, write the conditions under which work done is positive, zero, negative?