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2nd term- Rivision Exercises

01) The following figure shows an incident that we face in our day-today life. If many people take part in pushing the car instead of just one person, the task becomes easier. It is an incident where the concept of resultant force applies.



- (I) What is resultant force?
- (II) Give one example for each following incident regarding resultant force.
 - a) Resultant of two collinear forces acting along the same direction.
 - b) Resultant of two collinear forces acting along opposite directions.
 - c) Resultant of two parallel forces.

(III) Find the resultant force in each of following situations.



(IV) A vegetable seller is going to sell vegetables by a cart with his helper. The seller is pushing the cart with a force of 60N and the helper is pulling the cart from a string which is tied in front of the cart. If the helper is pulling the cart with a force of 80N, what is the resultant force?

(V) When an object is held by a Newton balance, the reading was 120N. If a part of that object having a mass of 500g was removed from the object, what will happen to the resultant force which stretched downwards the newton balance? Will it decrease or increase? What would be the value of resultant force in Newtons?

02) The things around us can be categorized as living things and non living things. For that, the common characteristics of living organisms such as cellular organization, nutrition, respiration, excretion, irritability and co-ordination are considered.

- (I) Write 3 common characteristics of living organisms that are not mentioned above.
- (II) Write four examples for unicellular organisms.
- (III) Write the organizational levels of an organism in the order of how it becomes complex by using arrows.
- (IV) Fill in the blanks.

Nutrition



- (V) a) Draw an apparatus that can be used to show the absorption of O_2 during respiration.
 - b) What are the observations there?
 - c) Explain the reasons for the above observations.
- (VI) a) What is a stimulus?
 - b) Write the sensitive organs in your body and stimuli detected by them.
 - c) What is the difference between irritability and co-ordination ?
 - d) Write an incident where plants respond to stimuli.

- (VI) a) What is excretion?
 - b) What are the methods of excretion in organisms?
 - c) What are the main excretory materials of the organisms?
- (VII) It is difficult to identify virus as living or non-living things. They are very small and can be observed from electron microscope only.
 - a. What is the pandemic virus spreading around the world at present?
 - b. What are the living characteristics that can be seen in virus?
 - c. What are the non-living characteristics that can be seen in virus?
 - d. Write 3 examples for viral diseases which are infected to animals.
 - e. Write 2 examples for viral diseases which are infected to plants.