

Salafew Model School

Rampose

Class - 5<sup>th</sup>

Subject - Science.

Study Material  
for Term 1st.

Name of the Chapters.

S.No.

1)

Nervous System

2)

Soil.

Class - 5<sup>th</sup>

Answer Key - T1

Exercise :-

'Our Nervous System'

A 1) The nervous system controls the activities of all the other organ systems of our body. This system consists of the brain, spinal cord and nerves.

- 2) Our brain performs the following main functions
- It coordinates and controls body processes like breathing, digestion of food etc.
  - It controls the movements of the body and its various parts.
  - It interprets sensations and allows the body to react accordingly.
  - It enables us to think, learn, memorise and apply logic.

3) (a) Medulla :- The brain stem, also known as the medulla, lies beneath the cerebellum. It connects the rest of the brain to the spinal cord. It controls vital activities like breathing, digestion of food and blood circulation.

b) Spinal cord :- The spinal cord is long, thick bundle of nerves that extends from the medulla. It is surrounded and protected by bony vertebral column. It transfers information between the brain and the rest of our body through nerves.

3) Cerebrum:- The Cerebrum is the <sup>2</sup> largest part of the brain. It is responsible for thinking and reasoning. It controls our thoughts, memory, intelligence, learning and our sense organs.

4) Cerebellum:- The Cerebellum is situated at the back of the brain, below the Cerebrum. It controls balance, movement and muscle coordination. It is because of Cerebellum only that we can stand upright, move around and maintain our balance.

5) Nerves form a network of pathways for conducting information throughout the body. Sensory nerves bring messages from the sense organs to the brain. Motor nerves carry messages from the brain to other parts of the body.

6) A reflex action is an involuntary action. It is nearly instantaneous movement in response to a stimulus. It is an automatic action. eg sneezing

7) A specialized organ such as eye, ear, tongue, nose or skin that is sensitive to a stimulus such as sound, light, smell etc. is known as a sense organ. we have five sense organs.

7) a) Eyes:- Eyes helps us to see different things around us.

b) Tongue:- our tongue helps us to taste things.



- c) Ears: - Ears help us to hear different sounds.  
d) Skin: - The skin helps us to feel, heat, cold, pain and pressure.

(B) 1) (d)                      2) (a)                      3) (b)                      4) (c)  
(C) 1. (c)                      2 (b)                      3 (c)                      4 (c)

- D
1. Voluntary
  - 2) Mixed
  - 3) Cerebrum.
  - 4) Medulla.

## Leisure time

- 1) CEREBELLUM
- 2) REFLEX ACTION
- 3) SPINAL CORD
- 4) MOTOR NERVES

## "Soil"

①

Exercise time:-

- A (1) Soil is defined as the uppermost layer of the earth's crust. It is one of the most important natural resources available to us. Plants need soil to grow. It holds the roots of the plants firmly and provides water and other essential nutrients to help them prepare food. Without soil, there would be no plant on our planet. Besides this soil is a home to many insects and micro-organisms.
- 2). Various organisms like earthworms, snails, insects and other micro-organisms like bacteria and fungi are also found in soil. Among these earthworms, ~~earthworms~~ are very helpful to the soil. They bury in soil, turn it and so make it loose. Not only this their movement helps to bring the nutrients that are present deeper in the soil to the surface. This improves the fertility of soil and helps in plant growth. Due to this reason, they are also known as farmer's friend.
- 3). The removal of top fertile soil by wind, water or other factors is known as soil erosion. Soil erosion results in loss of soil fertility which makes the land unsuitable for farming. This affects the food availability in the particular region.

## Soil (2)

4. Some factors leading to soil erosion are:-

Wind:- Due to wind, a lot of top soil is blown away especially in desert areas. Winds carry a lot of sand with them and deposit them in the form of sand dunes on the fertile layer of the land.

Water:- Water causes soil erosion in two ways, due to rain and due to running water bodies. Both of the two washes away a lot of nutrients, top soil and mud along with it.

Deforestation:- Excessive cutting of trees or deforestation is one of the chief reasons of soil erosion. The roots of trees hold the soil particles firmly. In absence of trees, soil in that area becomes quite loose and can easily be taken away by wind and water.

Other Causes:- Overgrazing by sheep and cattle also causes soil erosion. Poor farming methods also result in erosion. Natural cause like forest fires also destroy plant cover, leading to soil erosion.



5. The protection <sup>(3)</sup> of soil and its prevention against erosion ~~is~~ is known as soil conservation.

1) Afforestation

2) Terrace farming is a very efficient method of soil conservation.

3) Soil erosion can be prevented by building dams. These dams control the speed and amount of flowing water.

4) Avoid overgrazing.

6) Tetanus is an infection that affects the nervous system and leads to severe stiffening of the body.

The spores of tetanus bacterium enter a human body through an open cut or wound. Upon their entry, they produce a powerful nerve poison. This poison spreads inside the body especially in the spinal cord and causes paralysis and stiffness in various muscles of the body.

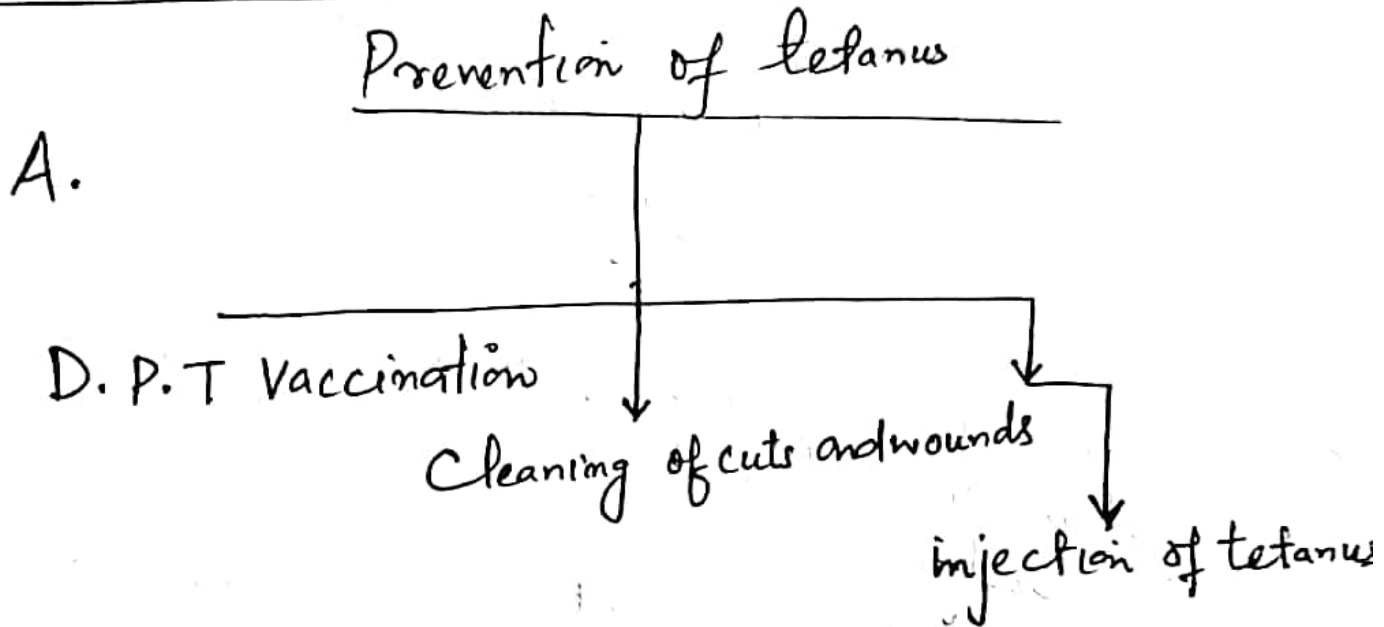
7) Some of the ways to prevent tetanus are:

- Children are usually given prevention from tetanus by a vaccine called D.P.T. It is an effective vaccine and provides prevention against tetanus.
- Tetanus can be avoided by proper cleaning of cuts and wounds with an antiseptic solution and by taking antibiotics.
- The injection of tetanus must be given after an skin injury

(P.T.O.)

B. 1 (d)    2 (c)    3 (a)    4 (b)  
 C 1. (b)    2 (c)    3 (a)    4 (a)    5 (c)

Leisure time



- B). 1. WEATHERING  
 2. EARTH WORMS  
 3. BACTERIA.  
 4) TETANUS.

T.P.T  
 D.P.T  
 and how