

Grade- VIII

PHYSICS

1. Fluids, such as liquid and gas, also exert a frictional force on the body moving through them. However, the frictional force due to water on the body moving through them is much less than the frictional force between any two solid surfaces. Thus, it is difficult to stop boats.
2.
 - a. Streamlined
 - b. Lubricant
3. Pressure = $\frac{35N}{7m^2} = 5N/m^2$
4. Force of gravity pulls object down towards earth but in the outer space, where the force of gravity is very weak. Because of no or very weak gravitational force in space, objects are almost weightless and therefore appear floating. Hence astronauts can't stand in their spaceship but float.
5. Ultrasonic sound waves have frequency higher than 20000 Hz and are used to investigate structures inside human body. These waves can penetrate human tissue and get reflected back. The reflected rays from the tissues are interpreted by the ultrasound machine and shown on the monitor. So, they can be used to check that a baby is developing normally inside mother's body or a tumor and its size in human body.
6. It is very dangerous to put a sharp, pointed or hard thing into our ears. It is so because outer part of the ear channels vibrations down to a thin membranous structure called the eardrum which is stretched very tightly and is flexible but delicate tissue. Any of the above mentioned objects can damage the eardrum. Damaged ear drum in turn can impair the hearing process.
7.
 - a. iii
 - b. i
 - c. iv
 - d. v
 - e. ii

BIOLOGY

I. Fill in the blanks

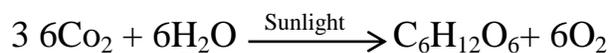
1. Oxygen
2. Stomata
3. Injection
4. Silk moth
5. Nitrogen
6. Starch

II. Answer the following Question

1

Breathing	Respiration
1. Process of obtaining oxygen and releasing carbon dioxide	1. Process of releasing energy from food
2. Physical process	2. Biochemical process

2 Man - lungs , fish - gills



4 Mushroom

5 The process of discharging undigested or waste material from organism is called egestion.

III.

1. Scavengers
2. Sericulture
3. Excretion
4. Transpiration
5. Rain guage

IV.

1.

- Kidney failure occurs when kidneys lose the ability to sufficiently filter waste from blood.

- Many factors such as toxic substances and certain medicines also cause kidney failure
2. Seed dispersal is spread or transport of seeds away from parent plant with the help of air , water , animals , insects etc.
 3. The plant helps to provide oxygen for animal respiration. They also maintain the balance of carbon dioxide in the atmosphere. That is why forest is called green lungs.
 4. Functions of xylem
 - They help in transport of water
 - They also transport soluble mineral nutrients

