

**Date: 14-05-2021**

**Class: 8<sup>th</sup> Genesis**

**Subject: Science**

**Test code: SEP04(21011304)**

**Physics**

***M. Marks: 20***

1. Name the physical quantity which gives us an idea of how slow or fast a body is moving. (1 marks)
2. What is acceleration of a body moving with uniform velocity? (1 marks)
3. What is the SI unit of retardation? (1 marks)
4. What is the push or pull on an object known as? (1 marks)
5. Give one example where force changes the shape of an object. (1 marks)
6. A body is collided with another body. Which force is involved in this process? (1 marks)
7. Which force makes a rolling balls top on its own? (1 marks)
8. Bus X travels a distance of 360 km in 5 hours whereas bus Y travels a distance of 476 km in 7 hours. Which bus travels faster? (2 marks)
9. A train travels the first 15 km at a uniform speed of 30 km/h; the next 75 km at a uniform speed of 50 km/h; and the last 10 km at a uniform speed of 20 km/h. Calculate the average speed for the entire train journey. (2 marks)
10. (a) Name two contact forces. (2 marks)  
(b) Name two non – contact forces.
11. Define ‘state of motion’ of an object. Name the ‘agent’ which can change the state of motion of an object. (2 marks)
12. (a) Write the formula for acceleration. Give the meaning of each symbol which occurs in it. (3 marks)  
(b) A train starting from Railway station attains a speed of 21 m/s in one minute. Find its acceleration.
13. (a) Define frictional force (or friction). (3 marks)  
(b) Explain why, frictional force is said to be a contact force.  
(c) Explain why, Gravitational force is said to be a non – contact force.