

First Unit Test -2022-23

Time - 1.00 Hrs.)

Class - 9th

(Marks - 10)

Subject- Science and technology-A

Q. 1-A) Fill in the blanks-

1

- 1) Joule is the unit of _____
- 2) The working of a rocket depends on Newton's _____ law of motion.

B) Match the pairs-

1

Column 'A'

Column 'B'

- | | |
|--------------------------|--|
| 1) Positive acceleration | a) velocity of the object decreases |
| 2) Negative acceleration | b) velocity of the object remain constant. |
| | c) Velocity of the object increases. |

C) Complete the following table.

2

u(m/s)	a(m/s ²)	t(sec)	v = u + at(m/s)
2	4	3	-----
-----	5	2	20

Q.2- Answer the following questions- (any Two)

4

1) Give the difference between
Distance and displacement.

2) Give scientific reason :

It is easier to stop a tennis ball as compared to a cricket ball, when both are travelling with the same velocity.

3) What is energy ? State the SI and CGS unit of energy.

Q. 3- Solve the following example. (any One)

2

1) An object moves 18 m in the first 3 m, 22 m in the next 3 m and 14 m in the last 3 m. What its average speed ?

2) Ravi applied a force of 10 N and moved a book 30 cm in the direction of the force. How much work done by Ravi ?