

WORK SHEET – Module –3/5

Sub: SCIENCE (PHYSICS) Class: IX

Chap – 9 , FORCE AND LAWS OF MOTION

Name: _____ Roll No. _____ Class/ Sec _____

Date: _____ Max. Marks ; _____ Marks Obtained _____

Choose the correct answer from the given options

1. The S-I unit of momentum is _____
a) $\text{Kg} / \text{m/s}^2$ b) $\text{Kg} / \text{m/s}$ c) Kg/m d) Kg / m^2
2. The S-I unit of force is _____
a) N b) m c) kg d) Pa
3. The mathematical formula of force is _____
a) mv b) ma c) mu d) at
4. Momentum of body is _____
a) Scalar b) Vector c) both a & b d) none of these
5. Force measures rate of change of _____
a) Mass b) velocity c) momentum d) acceleration
6. When a force of 1 N acts on a mass of 1 kg that is free to move, the object moves with _____
a) Speed of 1m/s b) speed of 1km/s c) acceleration of 1m/s^2
b) d) and acceleration of 1m/s^2
7. Newton's second law of motion gives up a measure of _____
a) Force b) Inertia c) momentum d) acceleration
8. The momentum of a body of mass 10 kg moving with a velocity of 5m/s is _____
a) 5 kg m/s b) 50 kg m/s c) 2 kg m/s d) 0.5 kg m/s
9. Force that can produce an acceleration of 2 m/s^2 in a body of mass 25 kg is _____
a) 50 N b) 25 N c) 12.5 N d) 100 N
10. A ball is thrown vertically upwards, the momentum at the highest point is _____
a) 0 b) 1 c) -1 d) both b & c

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ANSWER KEY

1. b
2. a
3. b
4. b
5. c
6. d
7. a
8. b
9. a
10. a