Paper: _____Physics_____   Total Marks: ____12_____

Month Test: ___May_____   Obj. Marks: _____

Theme/Unit: 1, 2, 3 (Force and momentum)   Grand Total:___ 75/_____

Objective/Subjective: ID: _____   Time: _____

Name: _____   class: ____9^th_____   Section: _____

QUESTION   NO: 1

Encircle the correct option from each of the following question.   (12×1=12)

1. The least count of digital stopwatch is:
a) 0.1 second   b) 0.01 second   c) 0.001 second   d) 1 second

2. The unit of temperature is:
a) Kelvin   b) Mole   c) Ampere   d) Meter

3. In physical balance, on what pan we place the object:
a) Right   b) Left   c) Both   d) None of these

4. Which one of the following is the smallest quantity:
a) 0.01g   b) 2mg   c) 100μg   d) 5000ng

5. The spinning motion of the body about its axis is known as_____motion:
a) Translatory   b) Circular   c) Rotatory   d) Random

6. The motion of gas molecules is _____ motion:
a) Random   b) Rotatory   c) Circular   d) Linear

7. The ball is thrown vertically upward. Its velocity at the highest point is:
a) $-10ms^{-1}$ b) zero   c) $10ms^{-2}$ d) None of these

8. Which of the following is vector quantity:
a) Speed   b) Distance   c) Displacement   d) Power

9. The unit of momentum is:
a) $Kgms^{-1}$ b) Ns   c) $Kgms^{-2}$ d) Both a & b

10. Spring balance is used to measure the_____of the body:
a) Velocity   b) Distance   c) Acceleration   d) Force

11. What is acceleration, that is produced by a 20N force in a mass of 8Kg:
a) $2.5ms^{-2}$ b) 160Kg   c) 2.5Kg   d) $160ms^{-2}$

12. The shortest distance between two points is called ———— :
a) Distance   b) Displacement   c) Speed   d) Velocity

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Name: _____
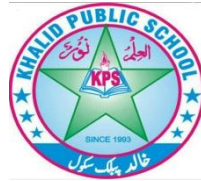
Total Marks: ___63_____

Obj. Marks: _____

Grand Total:___75/_____

Time: _____

ID: _____   class: _____9th_____   Section: _____

QUESTION   NO: 2

Answer the following questions.   (15×2=30)

1. Define Physics.
2. What is the Least Count of Vernier Callipers?
3. What is meant by Significant figures of the measurement?
4. Estimate your age in seconds?
5. Define Vibratory motion.
6. Write 3rd equation of motion (Only equation).
7. Can a body moving at a constant speed have acceleration?
8. Differentiate between Speed and Velocity?
9. Define Force.
10. State Newton's second law of motion.
11. A body of mass 5kg is moving with the velocity of 10 ms^{-1}. Find Force required to stop it in 2 seconds?
12. Write the formula of Acceleration and Tension, when two bodies moving vertically attached to the ends of string that passes over the frictionless pulley.
13. Differentiate between Mass and Weight?
14. What is meant by Vernier Constant?
15. Define Dynamics.

QUESTION   NO: 3
a. Explain 2nd equation of motion.   (6)
b. A train starts from rest. It moves through 1 km in 100 s with uniform acceleration. What will be its speed at the end of 100 s.   (5)

QUESTION   NO: 4
a. Describe the rules that are helpful in identifying significant figures.   (6)
b. A chocolate wrapper is 6.7 cm long and 5.4cm wide. Calculate its area up to reasonable number of significant figures.   (5)

QUESTION   NO: 5
a. How can you relate a force with the change of momentum of a body?   (6)
b. Two masses 4kg and 6kg are attached to the ends of an inextensible string which passes over a frictionless pulley such that mass 6kg is moving over a frictionless horizontal surface and mass 4kg is moving vertically downwards. Find acceleration in the system and tension in the string.   (5)