**Physics test**

7 / 01 / 2025

60 Marks

**Section A**

**SHORT Question answer** (any 5) 20 Marks

Q1: Write 3 comparative points between mass and weight

Q2: Write down 3rd law of motion

Q3: Define the force

Q4: Define centripetal force also write its formula

Q5: Write the statement of 1st law of motion

Q6: define linear momentum also write its formula

**LONG question answer** 15 Marks

Q1: write down the statement of the 2nd law of newton also derived F = ma

Q2: explain momentum in terms of force

**Section B**

**Numerical (any 5)** 20 Marks

Q1: consider a car moving with initial velocity of 8.07m/s to the final velocity of 3.22 m/s in time period of 34sec and car have the mass of 20kg. Find out the applied force

Q2: when 86.99kg box moved due to applied force of 200N. Calculate the acceleration

Q3: calculate the momentum when nucleus 0.00045kg moving with velocity of 0.000000321 m/s

Q4: when object 45.8kg moving with initial velocity of 8.3 m/s and after 45sec it stopped calculate the force by which object moved

Q5: A cycle 3kg moving with acceleration of 4.87ms-2 find out the applied force

Q6: when body which have mass of 12.222kg moving with velocity of 2.5m/s find out the linear momentum

**Physics test**

7 / 01 / 2025

50 Marks

**Section A**

**LONG question answer** 15 Marks

Q1: write down the statement of the 2nd law of newton also derived F = ma

Q2: explain momentum in terms of force

**SHORT Question answer** (any 3) 15 Marks

Q1: Write down 3rd law of motion

Q2: Define the force

Q3: Write the statement of 1st law of motion

Q4: define linear momentum also write its formula

**Section B**

**Numerical (any 4)** 20 Marks

Q1: consider a car moving with initial velocity of 8.07m/s to the final velocity of 3.22 m/s in time period of 34sec and car have the mass of 20kg. Find out the applied force

Q2: calculate the momentum when cycle 23.44kg moving with velocity of 1.45m/s

Q3: calculate the momentum when nucleus 0.00045kg moving with velocity of 0.000000321 m/s

Q4: when object 45.8kg moving with initial velocity of 8.3 m/s and after 45sec it stopped calculate the force by which object moved

Q5: when body which have mass of 12.222kg moving with velocity of 2.5m/s find out the linear momentum