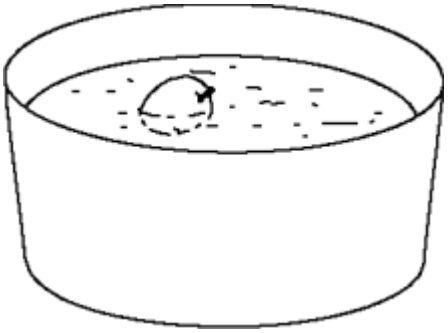
Practice Question Set For GCSE
Subject : Physics
Paper-2 Topic: Forces (Standard Demand Questions)

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Name of the Student:_____
Max. Marks : 18 Marks **Time : 18 Minutes**

Q1.



In a science lesson, some children float an apple on some water.

One of the children says:

"The apple is not moving. That means that there cannot be any forces acting on it."

Do you agree?
Explain your answer as fully as you can.

_____

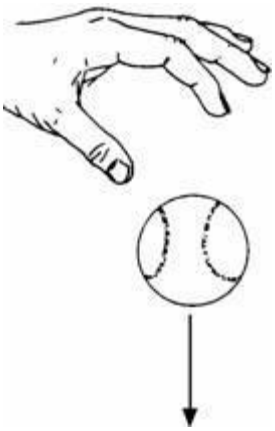
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_____

(Total 3 marks)

Q2.

Complete the following sentences.



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When you drop a ball, it falls to the ground.

This happens because the _____ pulls the ball

towards it with a force called _____ .

Forces are measured in units called _____ .

(Total 3 marks)

Q3.

When you transfer *energy* to a shopping trolley, the amount of *work done* depends on the *force* used and the *distance moved*.



Complete the table by using the correct units from the box.

joule (J)	metre (m)	newton (N)

The first one has been done for you.

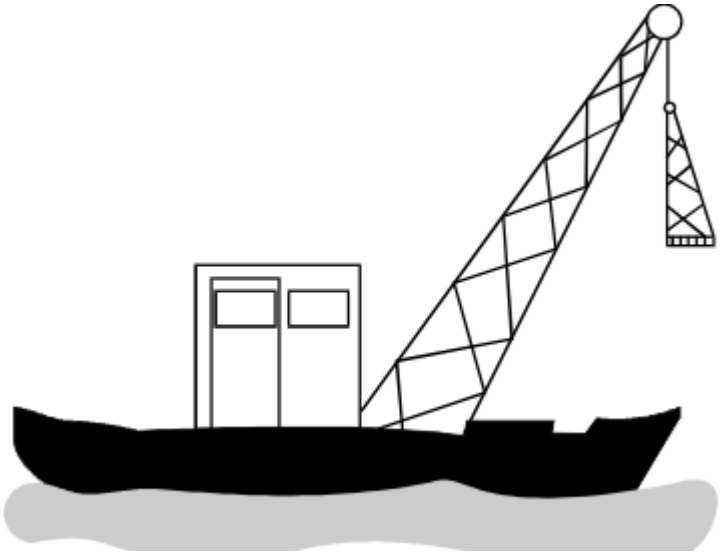
Quantity	Unit
energy (transferred)	joule
force	
distance (moved)	
work done	

(Total 2 marks)

Q4.

A crane on a barge lifts a girder and then carries it along the river.

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The girder has a weight of 1 000 000 N and is lifted to a height of 1500 cm.

(a) Complete the sentence.

The weight of the girder is caused by the Earth's gravitational field strength acting on its _____ .

(1)

(b) Calculate the work done in lifting the girder.

Write the equation you are going to use.

_____

(1)

Show clearly how you work out your answer and give the unit.

_____

_____

_____

_____

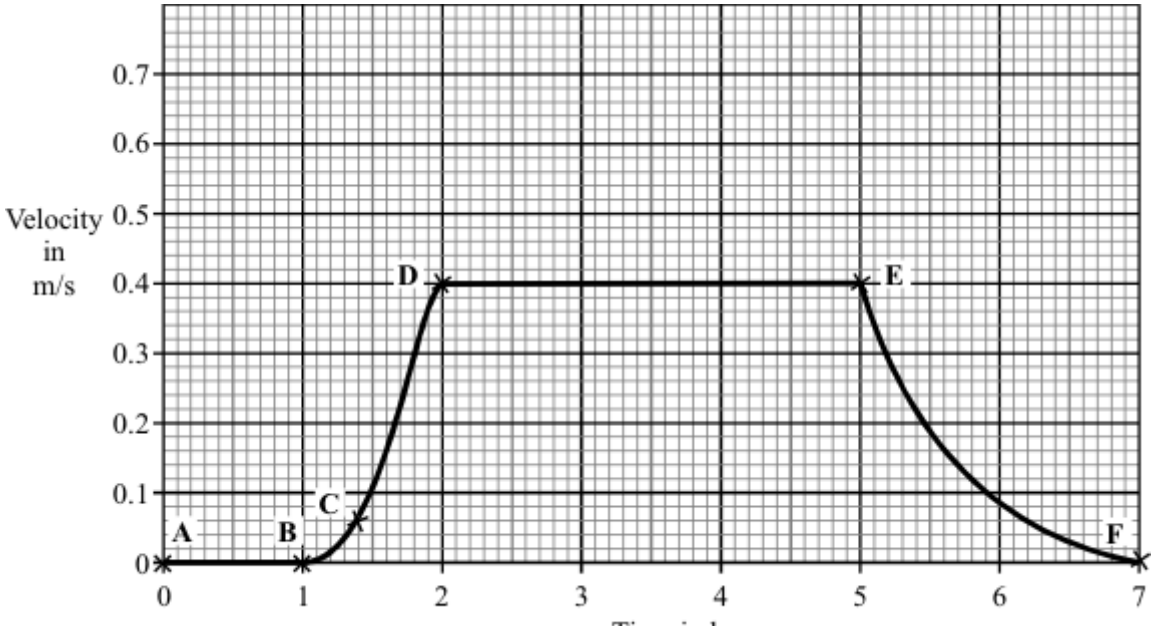
_____

Work done = _____

(3)

(c) The velocity–time graph represents the motion of the barge after the girder had been lifted.

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To gain full marks in this question you should write your ideas in good English. Put them in a sensible order and use the correct scientific words.

Describe the motion of the barge over this period of seven hours. You must refer to the points **A**, **B**, **C**, **D**, **E** and **F** in your description.

_____

_____

_____

_____

_____

_____

_____

_____

(5)

(Total 10 marks)

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