

UDAAN WEEKLY WORKSHEET 2 (20-11-2016)

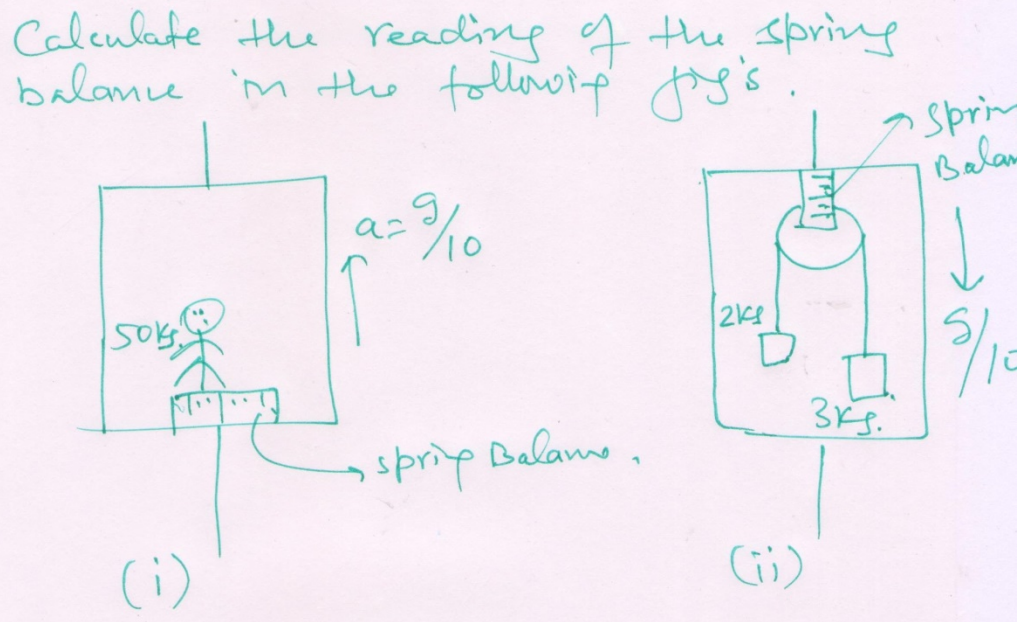
**CLASS XI
MATHEMATICS**

Question 1	<p>For the equation $3x^2 + px + 3 = 0$, $p > 0$, if one of the roots is square of the other, then p is equal to</p> <p>(a) $1/3$ (b) 1 (c) 3 (d) $2/3$</p>
Solution	
Correct Option	
Question 2	<p>If $b > a$, then the equation $(x - a)(x - b) - 1 = 0$ has</p> <p>(a) both roots in $[a, b]$ (b) both roots in $(-\infty, a)$</p> <p>(c) both roots in (b, ∞) (d) one root in $(-\infty, a)$ and other in (b, ∞)</p>
Solution	
Correct Option	

Question 5	<p>(Main exam.)</p> <p>If α, β are the roots of the equation $(x - a)(x - b) + c = 0$, find the roots of the equation</p> $(x - \alpha)(x - \beta) = c$
Solution	
Correct Option	

PHYSICS

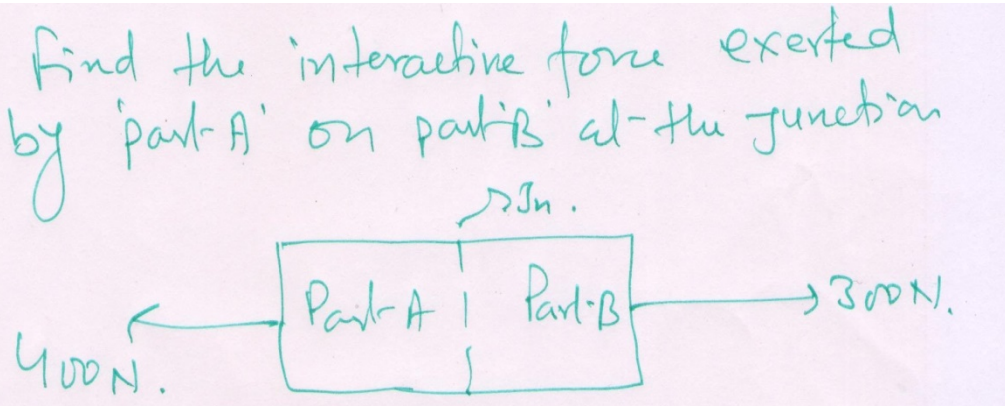
Question 1

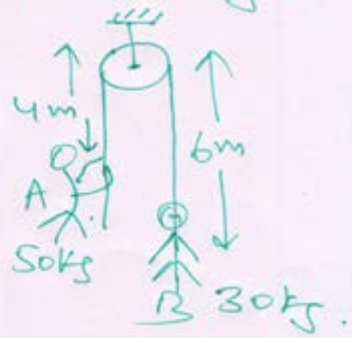


Solution

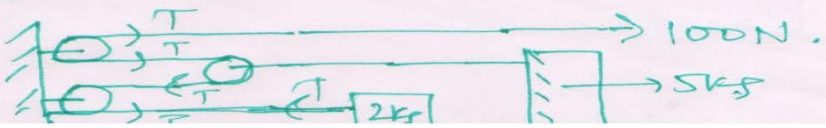
Correct Option

Question 2



Solution	
Correct Option	
Question 3	<p>A 5kg rope is used to pull a 50kg man fallen into a ditch.</p>
Solution	
Correct Option	
Question 4	<p>Find the time taken by the monkey 'A' to reach the pulley. starting from rest.</p> 

Solution	
Correct Option	

Question 5	<p>In the following fig. calculate: the acceleration of 2 kg masses and tension T.</p>  <p>The diagram shows a horizontal surface with a pulley at the right edge. A 2 kg mass is on the left, and a 5 kg mass is on the right. A string is attached to the 2 kg mass, passes over the pulley, and is attached to the 5 kg mass. A force of 100 N is applied to the right on the 5 kg mass. Tension T is indicated at various points in the string.</p>
Solution	
Correct Option	

CHEMISTRY

Question 1	Which of the following is a bridge element? A) Be B) Cl C) K D) P
Solution	
Correct Option	

Question 2	The ionization energy of nitrogen is more than that of oxygen because A. Nitrogen has half-filled p-orbital B. Nitrogen atom is smaller in size than oxygen atom C. Nitrogen atom is smaller in size than oxygen atom D. Nitrogen is less electronegative.
Solution	
Correct Option	

Question 3	<p>In the long form of periodic table, elements are arranged according to</p> <ul style="list-style-type: none"> A. increasing atomic number B. decreasing atomic number C. increasing atomic mass D. decreasing atomic mass.
Solution	
Correct Option	

Question 4	<p>4. The most electronegative and the most electropositive elements of the first period is/are</p> <ul style="list-style-type: none"> A. H and He B. Na and Cl C. Li and F D. H and H
Solution	
Correct Option	

Question 5	<p>Which of the following statements is not correct?</p> <p>A. Among halogens, oxidizing behaviour increases down the group</p> <p>B. Among alkali metals, reducing character increases down the group</p> <p>C. Fluorine is the most electronegative elements</p> <p>D. Lithium is the hardest metal among alkali metals.</p>
Solution	
Correct Option	