## The Brigade School Unit Test 1 (2020-21)

Total points 13/15



Class 10 Marks: 15 Subject: Physics

Paper 1: Objective

Email address \*

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0 of 0 points



Manan Y Mehta

Class: \*

10 A

School: \*

**TBSG** 

Physics Objective Questions Paper 1

13 of 15 points

Marks: 15



1 Identify the correct energy conversion in the following: *							
	electrical to light and heat energy	light energy to chemical energy	chemical energy to heat and light energy	Light to electrical	Score		
Photosynthesis		<b>✓</b>			1/1	<b>✓</b>	
Striking a matchbox with a matchstick			<b>~</b>		1/1	<b>✓</b>	
Glowing filament lamp	<b>~</b>				1/1	<b>~</b>	
Photovoltaic cell				$\checkmark$	1/1	<b>✓</b>	
<ul> <li>2. The centre of gravity of a solid cone is at a height from its 1/1 base. *</li> </ul>							
h/4						<b>✓</b>	
h/3							
3h/4							
2h/3							
Feedback  CG of solid cone	o io h/4 from i	ta basa it wil	l ha 2h /4 fran	a ita wantaw			



	<ul> <li>3. Sunil exerts a force of 300 N in pulling a cart at a constant speed of 10 0/7 m/s. The power exerted is: *</li> </ul>	1
	○ 15 W	
	○ 1500 W	
	● 1/15 W	
	Correct answer	
	● 1500 W	
	<ul> <li>4. Internal resistance is related to ε (emf), V(terminal voltage) and I</li> <li>(current) as: *</li> </ul>	1
	$r = (\epsilon - I)/V$	
	$ r = I/(\epsilon - V) $	
	$r = \varepsilon/(VI)$	
	r= (ε-V)/I	
	<ul><li>5. A ball of 450 g falls from a height of 2 m. The K E of the ball when it just 0/ reaches the ground will be: *</li></ul>	1
	O 9000 J	
	○ a 1	
	O 0 J	
	● 900 J	
	Correct answer	
	● 9 J	
!		

✓ 6. Calculate the current flowing through the circuit if 3360 C of charge flows through it in 7 minutes? *	2/2
O.125 A	
○ 480 A	
23520 A	
8 A	<b>~</b>
Feedback	
$Q = It; I = Q/t = 3360/7 \times 60 = 8 A$	
7. When a boy weighing 200 N sits at one end of a 6 m long see-saw, it gets depressed at one end. Where should a man weighing 400 N sit to bring the see-saw to a horizontal position? *	2/2
1 m from the other end	
1.5 m on the same side as the boy	
1.5 m from the centre on the other side	<b>✓</b>
2.5 m from the centre on the other side	

## Feedback

 $200 \times 3 = 400 \times L$  or L = 600/400 = 1.5 m on the other side from the centre (L x LA = E x EA)

8. In a circuit an ammeter is connected in and the voltmeter is connected in Pick the correct sequence to fill in the blanks. *	1/1
oparallel, series	
series, parallel	<b>✓</b>
Feedback  Ammeter is always connected in series whereas a voltmeter is always connected in parallel	
9. What is the type of wave used for echo depth sounding? *	1/1
ultrasonic	<b>✓</b>
infrasonic	
audible	
Feedback	
Correct	

✓ 10. What is the range of the wave that you have selected in Q 9? *	1/1
0 Hz to 19 Hz	
20 Hz to 20000 Hz	
20 kHz and above	
Feedback	
Ultra sonic waves have a frequency greater than 20000 Hz or 20 kHz	

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