

# **TEST PAPER: PHYSICS**

Time: 45 Minutes Class: 8<sup>th</sup> C.B.S.E.

Max. Marks: 30 Marks Date: 27th June, 2018

<u>Marking Scheme:</u> Three questions carry 10 marks each. Each question has 3 subparts each. Subparts A and B carry 3 marks each and subpart C carries 4 marks.

#### Question 1:

A.	Choose	the	correct	option:
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i)	A toy car released with the same initial speed a) stone b) plastic block	l will travel farthest on c) wooden block	d) glass block
ii)	If we apply oil on door hinges, the friction wi	will b) decrease	
	c) disappear altogether	d) will remain unchar	nged
iii)	A boy pushes the heavy box from right to left. Force of friction will act on the box a) from right to left b) from left to right		
	c) vertically downwards	d) vertically upwards	
iv)	<ul> <li>Which of the following statements is incorrect:</li> <li>a) Friction acts on ball rolling along the ground</li> <li>b) Friction acts on boat moving on water</li> <li>c) Friction acts on bicycle moving on a smooth road</li> <li>d) Friction does not on ball moving through air</li> </ul>		
v)	Friction is an a) evil	b) foe	
	c) friend	d) all of the above	
vi)	Fluid are		
	a) Gases	b) liquids	
	c) gases and liquids both	d) None of these	

## B. Answer the Following:

- i) While playing tug of war Preeti felt that the rope was slipping through her hands. Suggest a way out for her to prevent this. Support your answer.
- ii) What would have happened if there were no force of friction? Imagine and describe in your own words.

### C. Answer the Following in brief:

- i) Define different types of friction with suitable examples.
- ii) On what factors does fluid friction depends?

# Question 2:

A.		he blanks:				
	<ul><li>i) Friction depends on of surfaces</li><li>ii) Sliding friction is than static friction.</li></ul>					
	ract					
	iii) _ iv) F	Frictional force exerted by fluids	when we try to move an object at	rest.		
	-		face of another body the resistance	a to its motion is called		
	v) v	when one body rons over the sur	lace of another body the resistance	e to its illotion is called		
	vi) F	Friction produces causing	wastage of energy			
В.	Answe	r the following:				
	i)	What is the cause of friction?				
	ii)	Why sliding friction is less than	the static friction.			
C.						
C.	divere	.asuns.				
	a.	Soles of shoes and tyres are trea	aded			
	b.	Powder is sprinkled on carrom	board			
Quest	ion 3:					
•		r the following:				
i) ii)	the car	road. They experienced that alth	bring it to the side of the road as in the bring it to the side of the road as in the bring was smaller, once the care offer the least friction?	eir might initially to move the		
		i. plywood	b) plastic	c) ice		
		1 7	71	,		
D	. Mobil o	oil is used in scooters and bikes f	or which purpose?			
		a) as fuel	b) for reducing friction	c) for increasing		
		friction				
В.	Answe	r the following:				
i)	Wh	nat is the way to reduce fluid frict	ion?			
ii)		In which direction frictional force acts on a moving object.				
iii		our children were asked to arrange forces due to rolling, static and sliding frictions in a decreasing				
	ord	order. Their arrangements are given below. Choose the correct arrangement.				
			g, sliding, static (c) Static, sliding, r			
C.	Answe	r the following:				

- i) While travelling on a rickshaw, you might have experienced that if the seat cover is very smooth, you tend to slip when brakes are applied suddenly. Explain
- ii) It is easier to open a bottle cap by gripping it with a towel. Why?