

ANDHRA PRADESH COMMON EXAMINATIONS
SUMMATIVE ASSESSMENT-I - SEPTEMBER-2016
GENERAL SCIENCE , Paper – I
 (Physical Sciences)
 (English Version)

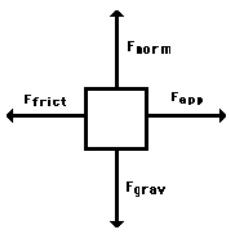
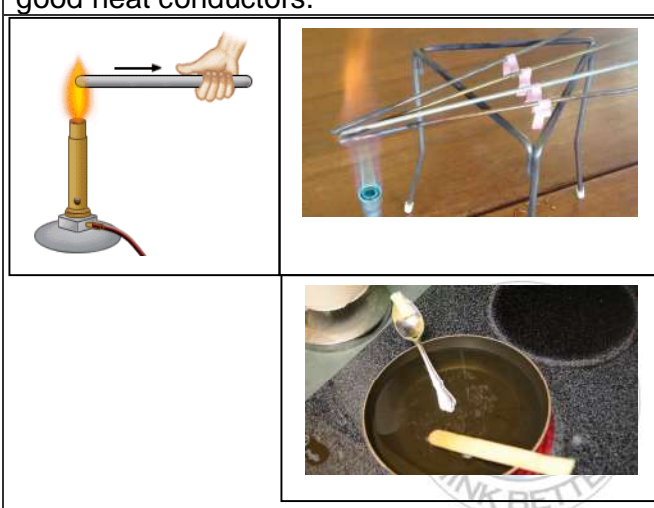
Class-08 - Principles of Evaluation - PART-A &B

Q.No	Points for Evaluation	Marks allotted	Total Marks
1.	(i) Change in motion (ii) Change in shape (iii) Change in direction (iv) Change in speed (v) Change the state of rest (any related point also suitable. Only two points are needed)	2x½	1
2.	Fluid friction in air increases. (or) The speed of aero plane decreases. (or) It may not move up. (any related point also suitable. Only one point is needed)	1	1
3.	Wear a mask to cover nose and mouth (or) Wear a mask to avoid breathing the fumes. (or) We should not inhale the smokes (any related point also suitable. Only one point is needed)	1	1
4.	Wool clothes (or) Acrylic clothes (or) Sweaters (any related point also suitable. Only one point is needed)	1	1
5.	If area of contact increases then pressure distributes and decreases. The lorries having heavy loads have more number of tyres to decrease the effect of force or pressure. (any related point also suitable. Only two points are needed)	1 1	2
6.	Can be recycled: Tooth brushes, Plastic bottles Can not be recycled: Polythene bags, Cooker handles (or) Recycled: Plastic bottles Not recycled: Polythene bags, Cooker handles, Tooth brushes,	2x1	2
7.	(i) Which material has shining (Luster) ? (ii) Which has sonority property ? (iii) Which can allow the flow of electric conductivity ? (iv) Which is hard ? (v) Which can be stretched as thin layers ? (vi) What happened if we beat them with hammer ? (vii) Can we draw thin wires from them ? (viii) Which produce hydrogen on reacting with acids ? (any related point also suitable. Only two points are needed)	2x1	2

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8.	Situation	Material used (or) Procedure followed to increase/reduce friction	4x1	4
	2. Bottom of the sports shoe	Spikes to increase friction(Or) Smooth surface to reduce friction		
	3. On the road	Muddy water to reduce friction(Or) Small stones to increase friction		
	4. On the hinges of a door	Use oil to reduce friction(Or) Use dust to increase friction		
	5. To play carom board	Use powder to reduce friction(Or) Use nothing to increase friction		
	(any related point also suitable. Only four points are needed)			
9.	<p>Synthetic fibres possess uniform unique characteristics They absorb water less and dried up quickly. They are in different colours. They are available in cheap cost and in different designs. They have more durability than natural fibres. So synthetic fibres made revolutionary changes in the world irrespective of customs and culture. So I appreciate the role of Synthetic fibres. They were attracted by the consumers.</p> <p>(any related point also suitable. Only four points are needed)</p>		4x1	4
10A.	Force is which there is a physical contact between two interacting objects is known as contact force.		1	4
	Ex: Force along thread on suspended ball		1	
	Force is which there is no physical contact between two interacting objects is known as force at a distance or field force.		1	
	Ex: Force on a falling fruit, Magnet attracts nails		1	
	(any related point also suitable. Only four points are needed)		1	
(OR)				
10B.	<p><u>Friction is good to human beings.</u></p> <p>(i) We can walk. (ii) We can write (iii) We can hold things (iv) We can cook (v) We can eat (vi) We can drive vehicles</p>		4x½	4
	<p><u>Friction is evil to human beings.</u></p> <p>Due to existence of friction in the world</p> <p>(i) It can tear the surfaces (ii) It causes the waste of energy (iii) It can stops the moving vehicles (iv) It can produce heat and damages machine parts</p> <p>(any related point also suitable. Only 4 points for each are needed)</p>		4x½	
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11A.	Flame test : (i) Take a spirit lamp and lit it. (ii) Hold a piece of plastic (Say comb) with the pair of tongs. (iii) Place the sample plastic piece on the flame of spirit lamp. (iv) Observe the changes in that piece on heating. (v) Note down the observations in the table. (vi) Repeat the same procedure for the remaining samples (vii) If the samples melt, they are thermo plastics. (viii) If become hard on burning, they are thermosetting plastics. (any related point also suitable. No need of number of points. Concept should be clear in minimum four points.)			*	4
	(OR)				
11B.	Identifying the reactivity of metals : (i) Take copper sulphate sol. in first beaker , keep iron nail in it. (ii) Take Iron sulphate sol. in 2 nd beaker ,keep copper wire in it. (iii) Leave them for 10 minutes with out disturbance. (iv) We observed that reaction takes place in copper sulphate sol. (v) Iron is more reactive than copper. So iron forms iron sulphate. (vi) No reaction takes place in iron sulphate solution. (vii) Copper is less reactive than iron , it does not react with it. Observations : In first beaker, Blue copper sulphate fades. And copper coated on iron nail. In second beaker, no change occurs. (any related point also suitable. No need of number of points. Concept should be clear in minimum four points.)			3	4
				1	
12A.	(i) Tension, Gravitational force			1	
	(ii) As the Tension is equal to gravitational force, the block does not fall down			1	
	(iii) Only gravitational force acts on it while falling down.			1	
	(iv) Gravitational force, Normal force, Frictional force acts on it (any related point also suitable. Only four points are needed)			1	4
	(OR)				
12B.	Material	Situation in which the materials are used	Reason	4x1	4
	1) Copper	Electric wires	Best electric conductor		
	2) Iron	Electric tester	Best electric conductor		
	3) Plastic	Tester Handle	Poor electric conductor		
	4) Bakelite	Electric switches	Poor electric conductor		
	(any related point also suitable. Only four points are needed)				
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>NAGA MURTHY- 9441786635 Contact at : nagamurthysir@gmail.com Visit at : ignitephysics.weebly.com</p> </div>					

13A.	(i)		3	4
	(any diagram related is sufficient. Meaningful diagram is enough.)			
	(ii) Net force acting on the book in vertical direction = $F_{\text{normal}} - F_{\text{gravitational}} = 0 \text{ N}$		1	
	(OR) This question is not for testing drawing skill.			
13B.	(i) Metals are used to make cooking vessels. Because they are good heat conductors.		1	4
	(any diagram related is sufficient. Meaningful diagram is enough.)			

Section - IV

S. No	Ans.	S. No	Ans.	S. No	Ans.	S. No	Ans.
14	C	19	D	24	C	29	B
15	A	20	A	25	D	30	A
16	B	21	B	26	C	31	C
17	A	22	D	27	B	32	A
18	C	23	A	28	C	33	D

Note : * means allot full marks. Each question carries ½ mark.

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