PRAKASAM DISTRICT COMMON EXAMINATION BOARD SUMMATIVE ASSESSMENT-II - JANUARY-2016

GENERAL SCIENCE, Paper – I

(Physical Sciences) (English Version)

Class-09 - Principles of Evaluation - PART-A &B

Q.No	Points for Evaluation					Marks allotted	Total Marks
1.	(i) Solid (ii) Lig	quid (iii) Gas					1
2.	(i) What do you observe in the figure?					2x½	1
	(ii) How many forces acting in this situation?						
	(any related question also suitable)						
3.	α - particle scat					1	1
4.	Centre of gravity lie on the vertical line passes through the mid point of his body.					1	1
5.	The temperature	e of steam is	more th	an temper	ature of boiling water.	1	
	So steam produces more severe burns than boiling water.					1	2
6.	The distance travelled by the body The displacement of the body in						
	in unit time is sp			unit time	is velocity. Vector. Its	2x1	2
	value is always positive or zero. value may positive or zero or						
	$Speed = \frac{Distance}{Time} $ negative. Velocity = $\frac{Displacement}{Time}$						
7.	(i) How do you	separate sto	nes from	rice?			
	(ii) How do you separate husk from rice?						
	(iii) How do you separate tea from tea powder?						2
	(iv) How do you separate lemon seeds from lemanode?						
	(any related question also suitable)						
8.							
	Name	Symbol	Atomic i	number (Z)		4x½	2
		⁹ Be ₄		4			
	Magnesium	²⁴ Mg ₁₂					
9.	<u> </u>		for the ro	ne walker	to adjust the centre of		
<i>)</i> .	The long pole is beneficial for the rope walker to adjust the centre of						
	gravity at the middle of the rope. If the pole has slight bending, it is						2
	more beneficial for him. As the stability depends upon the height of centre of gravity.						
	(any related two points)						
10	<u> </u>						
10.	Length of train = 50 m						
	Length of bridge = 250 m						
	Speed of train = 10 m/s						-
	In case of crossing an electric pole: Distance = length of train = 50 m Distance travelled 50 p						4
	$I \text{ ime} = \frac{1}{Speed \text{ of train}} = \frac{1}{10} = 5 \text{ sec.}$						
	In case of crossing a bridge:						
	Distance= length of train + length of bridge = $50 + 250 = 300 \text{ m}$						
	Time = $\frac{Distance\ travelled}{Speed\ of\ train} = \frac{300}{10} = 30 \text{sec.}$						
	(OR)			Specia of	10	1	

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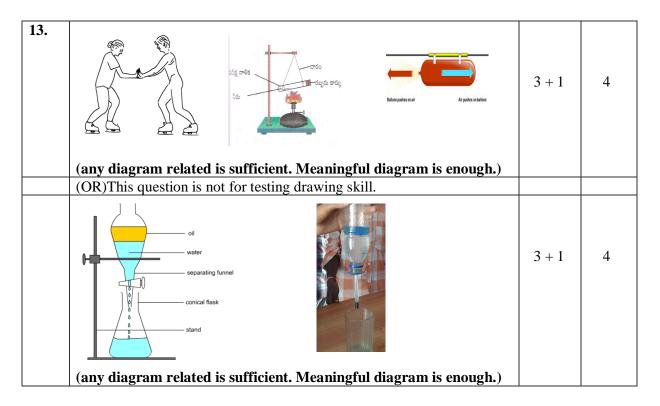
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another body of mass m2 and moving with velocity u2. After collision they move with v1 and v2 velocities. Time t. As per Newton's third law Force = - anti force m1. a1 = - m2. a2 m1. (\frac{\varphi_1 - \varphi_1}{t} = - \varphi_2. \text{ (\varphi_2 - \varphi_2)}{t} \text{ 11/2} m1. V1 = m1. U1 = m2. U2 = m2. V2 m1. U1 + m3. U2 = m1. V1 + m2. V2 m1. U1 + m3. U2 = m1. V1 + m2. V2 (i) Atomicity: The number of atoms constituting a molecule is known as its atomicity. (or) The number of atoms in a molecule is called as atomicity. (ii) Valency: The atoms of elements have the power to combine with atoms of other elements. This is called valency. (iii) Ion: An atom can gain or loose electrons and form ions. (iv) Atomic mass of an atom: The number of times one atom is heavier than \frac{1}{12} th part of carbon atom mass is called as atomic mass of that atom. (or) The total number of protons and neutrons in an atom is called as atomic mass of that atom. (any related answers for the individual) (OR) (i) Electrons revolve around the nucleus in shells or orbits. (ii) the shells are denoted with K1.M.N or 1.2.3,4, (iii) Revolving electron does not loose any energy or gain energy. (iv)		The sum of momentums of bodies is constant, when a collision occurs.	1	
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		(any matter that gives brief description in 4 points)		

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

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

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