ANDHRA PRADESH COMMON EXAMINATIONS

SUMMATIVE ASSESSMENT-II - JANUARY-2017 GENERAL SCIENCE , Paper – I

(Physical Sciences)
(English Version)

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

Q.No		Points for	Marks allotted	Total Marks		
1.	Gravitational force					1
	(any related point also suitable. Only two points are needed)					
2.	They do not react with air. (Or)					
	They do not participate in (chemical) reactions. (Or)					1
	The	y have less reactivity.				
	(any related point also suitable. Only one point is needed)					
3.	Sound produced due to vibration of papers (Or)					1
		ations produce sound.				
		related point also suitable. (•			
4.	` '	n the manufacturing of deter	_			
	` '	n the manufacturing of syntl				
	(iii) in the manufacturing of medicines					
	(iii) in the manufacturing of medicines (iv) in the manufacturing of cosmetics					1
	` '	n the manufacturing of tyres		Co		
	(vi) in the manufacturing of fertilizers					
	(any related points also suitable. Only two points are needed)					
5.	(i) Static friction					
	Ex: If we kept a book on table, The friction between them					
	(ii) Sliding friction					
	Ex: If we kick a brick on the floor, The friction between them					2
	(iii) Rolling friction					2
	Ex: If we roll a marble on floor, The friction between them					
	(any related points also suitable. Only two points are needed with one suitable example for each)					
	one	Contact force		Force at a distance		
6.	4		4		2x1	2
	1.	Force between two	1.	Force between two objects which are not in contact	2X1	2
		objects which are in		which are not in contact		
	2.	contact	2.	Ev. Cravitational force		
	2.	Ex: Muscular force, Tension force, Normal	۷.	Ex: Gravitational force, Magnetic force, Electro		
		force, Frictional force		static force		
	3.	Force between hand and	3.	Force between iron nails		
	3.	pen while writing	٥.	and magnet		
	(apr	related points also suitable.				
		suitable example for each)				
	one	suitable example for each)				

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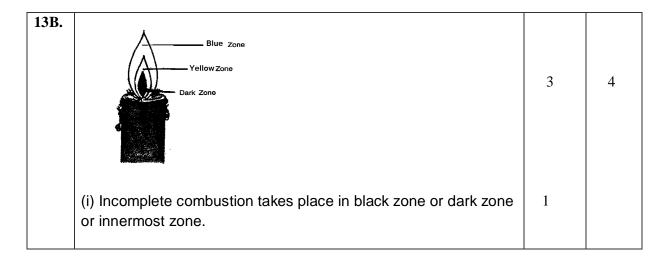
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	(N. 1.1			1	
7.	(i) How it is produced sound with out vibration?				
	(ii) Is it possible to produce sound with out vibration?				2
	(iii) Which part produce sound?				2
	(iv) Is the vibration body invisible?(any related points also suitable. Only two points are needed)				
0					
8.	Rapid cor	mbustible ances	Spontaneous combustible substances	4x ¹ / ₂	2
	Petrol	ances	Sodium	4X72	2
Ì	Spirit		Phosphorous		
			Filospilorous		
	(Or)	ممموطية والطنا	. Datual Cairit		
		tible substances	stances : Sodium, Phosphorous		
			le. Classification is needed.)		
9.			, CNG are non renewable energy		
9 ,			etrol, Diesel causes air pollution.		
Ì			for alternative energy resources	2x1	2
Ì			Because they are Pollution free		_
	and renewable		-		
	(Or)	0,7			
	Petroleum ene	rgy Resources	Alternative energy resources		
	Causes air poll		Do not pollute air		
	Non renewable sources Renewable sources				
	So we have to look for alternative energy resources like solar				
	energy, wind e				
	(any related met				
10A.	Musical		duced sound?		
	instruments				
	Veena It produced sound on vibrating the stretched				
		strings, which	are tightly fitted.		
	Flute	It produced so			
		in it by blowing	4x1	4	
	Tabala	It produced so			
		membrane, w			
Ì	Violin	It produced so			
Ì		strings, which	are tightly fitted.		
Ì	(Or)				
	(i) Veena produced sound on vibrating the stretched strings,				
	which are tightly fitted. (ii) Flute produced sound on vibrating the air column in it by				
		rating the air column in it by			
blowing air.					
	(iii) Tabala produced sound on vibrating the stretched membrane, which is tightly fixed				
	(iv) Violin produced sound on vibrating the stretched strings,				
	which are tightly fitted.				
ı	or are again, mod.				
	(any related method also suitable. Any four points are needed.)				
	(unj related lifet)	ioa aibo balabit	rour points are necueu.	1	

10B.	Reasons for Sound pollution:	any	
100.	(i) Sound exceeds 80 dB causes sound pollution	four	
	(ii) Sound in traffic	points	
	(iii) Sounds at construction areas		
	(iv) Sound due to explosion of crackers.	4x½	
	(v) Sound sat industries and mines		
	(vi) Sounds at automobile repair shop		
	Steps to be taken to reduce sound pollution:		4
	(i) Attach silencers to bike and other vehicles.		-
	(ii) Machines with less noise to be manufactured.		
	(iii) While listening tape recorder, keep down the volume.	any	
		four	
	(iv) Save plants as they reduce sound pollution.	points	
	(v) While watching TV, keep down the volume.	41/	
	(vi) Don't use explosive crackers on functions.	$4x^{1/2}$	
	(any related points also suitable. Only Eight points are needed.)		
11A.	(i) P.E.T. bottle	1	
ſ	(ii) Electric switch, Computer Key board	2x½	
	(iii) Polythene bag	1	4
	(iv) P.E.T. bottle	1	
	(any related points also suitable.)		
11B.	(i) Hydrogen	1	
	(ii) 45000 KJ	2x½	
	(iii) L.P.G , Hydrogen	2x½	4
	(iv) Solar energy / Wind energy / Hydro energy / (any one)	1	
	(any related points also suitable.)		
12A.	Friction doesn't depend upon area of contact:		
	(i) Tie a thread around a brick.		
	(ii) Keep the brick horizontally on the floor.		
	(iii) Pull the brick with spring balance.		
	(iv) The reading indicates the frictional force.		
	(v) Now keep the brick vertically on the floor.	8x½	
	(vi) Pull the brick with spring balance.	OA/2	
	(vii) In both cases we observe same readings.		4
	We conclude that Friction doesn't depend upon area of contact		
	(any related answer also suitable. No need of number of points.)		
	(OR)		
	Friction doesn't depend upon area of contact :		
	(i) Tie a thread around a brick.	1/2	
	(ii) Keep it horizontally on the floor and pull it with spring balance.	1	
	(iii) The reading indicates the frictional force.	1/2	
	(iv) Repeat the procedure by placing the brick vertically.	1/2	
	(v) In both cases we observe same readings.	1/2	
	We conclude that Friction doesn't depend upon area of contact	1	
		1	
	(any related answer also suitable. No need of number of points.) NAGA MURTHY- 944178663	5	
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12B.	Sound has energy:										
	(i) Keep a vibrating cell phone in										
	(ii) Close the glass with a rubber	*									
	(iii) Place some sugar or sand cr										
	(iv) We observe the movement o	f crystals									
	(v) If there is no vibrating cell pho	one in the glass, the crystals do									
	not move.	3 , 3									
	(vi) This indicates that sound has	s energy.		4							
	(any related answer also suitable.	0,		-							
	(OR)	rio need of number of points,									
	Sound has energy:										
		the floor									
	(i) Keep some sugar crystals on the sp		*								
	(ii) Keep some crystals on the sp										
	(iii) We observe the movement of										
	(iv) This indicates that sound has	G ,									
12.4	(any related answer also suitable.										
13A.	(i) Materials required :	(i) Materials required :									
	Boiling tubes-2, Coal powder,	Test tube, Test tube Holder,									
	Water, Delivery tube, Jet	Coal powder, Spirit lamp,									
	tube, Stands-2, Water, Spirit	Match box	1								
	lamp, Match box	1									
	Delivery tube Boiling tubes Jet Tube	3	4								
	Coal water powder Bunsen burner	3									
	(OR)										
	(i) Materials required :	(i) Materials required :									
	Test tube, Test tube Holder,	Boiling tubes-2, Coal powder,									
	Coal powder, Bunsen burner,	Water, Delivery tube, Jet	1								
	Match box	tube, Stands-2, Water,									
	~	Bunsen burner, Match box									
	1	Boiling tube									
		Powdered									
	(01	R)									
		Water (This dissolves	3								
	<u> </u>	Coal tar Ammoniacal liquor)									
	(Note: Any related diagram is suit										
	diagram consider them as list of material.)										
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Section - IV

S. No	Ans.	S. No	Ans.	S. No	Ans.	S. No	Ans.
14	В	19	В	24	С	29	A
15	С	20	DEPH	25	С	30	A
16	D	21/2	В	26	С	31	A
17	A	22	D	27	D	32	D
18	В	23 ^{ign}	A A	ebly.com 28	A	33	D

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

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