TELANGANA – WARANGAL

DISTRICT COMMON EXAMINATION BOARD

SUMMATIVE ASSESSMENT-I - OCTOBER-2016

GENERAL SCIENCE, Paper – I

(Physical Sciences) (Telugu Version)

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

Q.No	Points for	r Evaluation	Marks allotted	Total Marks	
1.	(i) Never use a sodium piece la	rger than a horse gram or pea.	1	1	
	(ii) Wear a safety mask and gog	Vear a safety mask and goggles.			
	(III) We should made the activity	/ from distance.			
2	(any related point also suitable. (i) We have to use loss earry be				
<i>2</i> .	(i) We have to use less carry ba	$2 \mathbf{v}^{1/2}$	1		
	(iii) The organizations also created	27/2	1		
	towards the problems of usir				
	(iv) We have to create awarene	ss about implementation of 4R's.			
	(v) We take oath to use less nu	mber of plastic carry bags.			
	(any related point also suitable. (Only two points are needed)			
3.	Light selects the path which tak	es the least time to travel.			
	(any related point also suitable.)	KE PH	1	1	
4.	When we listen musical sounds	we feel happy. Because	2.1/	1	
	The intensity of such sound are		2X1/2		
		audible. *			
	We do not feel pleasant when li	sten to music all time			
	If we listen classical music, we i	may feel happy.			
	If we listen sad songs, we may	not feel happy.			
	But Music and its intensity effect	ts the feelings.			
	(any related point also suitable. (
5.	Real image	Virtual image			
	Real image is formed always	Virtual image is formed always	$2x^{1/2}$	1	
	in front of the mirror.	behind the mirror.			
	Image can be obtained on	Image can not be obtained on			
	It is formed when light	It is formed when light appears			
	converges to a point after	to be diverges from a point			
	reflection or refraction.	after reflection or refraction.			
	It is always inverted.	It is always erect.			
	(any related point also suitable. (Only two points are needed.)			
6.	The physical properties of alum	inium made it a very important			
	(i) As aluminium is a cheap, ute	nsils are made with aluminium.	2x1⁄2	1	
	(ii) As it a good malleable metal				
	chocolates, food items.				
	(III) As it is a good conductor of				
	(iv) As it has luster used in silve	erv white paints			
	(v) As it is light weight and strop				
	parts of aeroplane. space cra				
	So I appreciate the role of alum				
	(any related point also suitable. (

7.	(i) It creates a lot of trash on the		_			
	(ii) They take several years to d	$2x^{1/2}$	1			
	(III) The plastics waste does not deaths of aquatic life					
	(iv) The plastics which were eat					
	and a cause to the death of					
	(v) The garbage of plastic bags					
	(vi) If we burn the plastic, they p					
	causes to air pollution.					
	(any related point also suitable.					
8.	A man is standing still on a	D.				
	level floor.	Diagram	2			
	Two forces act on the man.	1	2			
		$N_1 \mid \bigvee_{W} \mid N_2$				
	(i) Gravitational force					
	(ii) Normal force		2x1/2			
	Note : Friction can also be show					
	(any related points also suitable.)				
9.	Synthetic fibre	House hold Articles				
	Nylon	Ropes, Bristles, Sarees	$2x^{1/2}$	2		
	Rayon	Clothes, Bed sheets, Carpets	2X1/2			
	Acrylic	Sweaters, Carpets, Sportswear				
	Polyester	Clothes, Wires, Film tapes				
	(any related points also suitable.	Only about two fibres and two				
10	examples for each are needed.)					
10.	(ii) We can not use agricultural					
	(iii) We can not manufacture ca	/w1/2	2			
	(iii) We can not have electricity	4X72	2			
	(IV) We can not have electricity					
	(v) no annians, no sewing mac					
	No knifes, No other materials w					
	(VI) Simply if there is no metals					
	(any related points also suitable.					
11.	(i) What forces acting on the rol	ler when it is in rest?				
	(II) What forces acting on the ro	ner when it moves?	2.1	2		
	(iii) What is the net force acting	on the folier?	2X1	Z		
	the surface?					
	(v) Are same forces act on the r	oller whether it is pushed or				
	pulled?					
	(any related diagram also suitab	le. Only two points are needed)				
12.	(i) Angle of incidence = 45°		2x1	2		
	(II) Angle of reflection = 45	Only two points are pooled)				
	(any related graph also suitable.					
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13.	(i) 4R's are useful to reduce plastic usage.		
	(ii) Useful to reduce earth pollution		
	(iii) Useful to utilize waste plastic material in other way	$4X^{1/2}$	2
	(iv) Useful to convert plastic garbage in to energy resources		
	(v) Useful to Save environment		
	(any related points also suitable. Only four points are needed)		
14A.	(i) Ductility : Metals can be drawn into fine wires.		
	Ex: Copper wires used in electric wires.	Details	
	Iron mesh have iron strings.	1/2	
	(II) Maileability :Metals can be beaten and made into thin sheets.	One ex:	
	EX: Sliver folls used in sweets.	1/2 Ear as sh	
	Gold folls used in jewellary	For each	
	Ex: Copper is used in electric wires	4x1	1
	Aluminium is used in current supply lines		4
	(iv) Heat conductivity . Metals are good conductors of heat		
	Ex: Aluminium is used in utensils.		
	Copper is coated at the bottom of utensils		
	(any related points also suitable. Only one example for each is		
	needed)		
14B.	(a) <u>Blending</u> : The process of combining any synthetic fibre with		
	two or more other fibres is called blending.	4x1	4
	(b) Bio degradable : The materials (Fruits) which can be easily		
	decomposed by natural processes are called bio-degradable		
	(c) Recycling : The broken plastic materials are not comfortable		
	for usage. So they were given a proper treatment to make to		
	This preserve is called to trainer to make to		
	reuse. This process is called recycling.		
	(d) <u>Decomposition</u> : The materials break down into smaller pieces		
	in the presence of water, sunlight and oxygen. They further		
	broken down by bacteria. This is called decomposition.		
	(any related points also suitable. Only four points are needed)		
15A.	Friction reduces the speed of a body in motion. If there is rough		
	surface the friction is more. To move a vehicle on rough surface	2	
	we have to use more energy. It means more fuel is utilized. So		
	friction causes energy wastage.		4
	To reduce energy wastage by friction and to save fuel we		
	adopt various methods like using lubricants grease oils and ball	2	
	bearings. Also making surfaces smooth is useful to reduce	_	
	energy wastages		
	(any related points also guitable Only, 4 points are pooled)		
15P	(any related points also suitable. Only 4 points are needed)		
158.	(i) Allach Silencers to bike and other venicles.	A v 1	4
	(ii) While listening tane recorder, keep down the volume	431	4
	(iv) Save plants as they reduce sound pollution		
	(any related point also suitable Only 4 points are needed)		
	(any related point also but able only a points are needed)		
		1	
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16A.							
		Nat	ural fibres	Artificial fibres	6		
		Hair		Piece of plastic			
		Wool		Thread of sweate	er	0.1/	4
		Silk		Piece of nylon		8X1/2	4
	Paper						
		Collon					
	(any related	d points :	also suitable. C	lassification is mus	t.)		
16B.	Musica	I	Vibrating par	ts while producin	ig sound		
	instruments						
	Veena		Strings				
	Guitar		Strings			8x1⁄2	4
	Tabala		Membrane, Ai	ir			
	Flute		Air column				
	Drums		Membrane, A	ir			
	Violin		Strings				
	Piano Strings						
	Harmor	nium	Air column				
	(any related points also suitable. Only one part in each is needed)						
17A.	Verification of laws of reflection:						
	Fix a white paper on a drawing board with the help of clamps.						
	Draw a straight line AB at the centre of the paper and a normal						
	(ON) to AB at 'O'. Draw a straight line PQ making certain angle				ertain angle	2	
	(\hat{i}) with ON. Fix two pins at P and Q on the paper vertically.				ertically.		
	Observe the images P and Q of the pins P and Q, in the mirror				in the mirror		4
	Kept along the line AB. Fix two more pins R and S such that the are in the same line as that of P^{I} and O^{I} loin P. S and O.						
	are in the same line as that of P and Q. Join R, S and O Measure, the angle between RS and ON (angle of reflection)				reflection)		
	We find that angle of incidence = angle of reflection. $(1^{st} law)$			tion. (1 st law)	1⁄2		
	Incident ray, Reflected ray, normal lie on same plane. (2 nd law)			e. (2 nd law)	1/2		
						72	
		< ♠					
		$\mathbf{P}^{\mathbf{I}}$					
						1	
	A ////////////////////////////////////						
				S			
	(any related	d points :	also suitable. N	o need of number o	of points)		
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17B.	Take a plastic glass. Close the mouth of bottle with a balloon using rubber band. Stretch it tightly so as to behave like a diaphragm.	3	
	Place some sugar crystals or small size of sand particles on the balloon diaphragm.		
	When there is no cell phone inside the bottle, sand particles on the diaphragm remain stationary.		4
	While the cell phone plays songs inside the bottle, the diaphragm vibrates which can be seen through dancing of sand particles.		
	The sound produced by cell phone inside the bottle is responsible for these vibrations. Thus, sound has energy to make sand		
	particles vibrate on the diaphragm.		
	Ex: (i) The glass on stereo shakes	2x1⁄2	
	(ii) The vessels can shake while using grinder		
	(any related points also suitable. Only four points are needed.)		

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<u>Note</u>: * means allot full marks. Each question carries $\frac{1}{2}$ mark. Bit:9: What is meant by f_s , f_k and f_r . No information given in text book.

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