GuruAanklan/SSC Examination/Grand Test/Science & Technology (72) Paper-I/Set-A/QP Guru Aanklan Guru Aanklan						
G	RAND	SSC E	XAMINATION		Marks : 4	10
	TEST	SCIENCE & 1	TECHNOLOG	<b>SY (72)</b>	Duration	
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Note:-	ii. Students sho	s are Compulsory. ould write the answers of qual belled diagram whereve	-			
Q.1A	Answer the fo	llowing sub-questions :				
1.	Fill in the blanks: [3]					
1.	1 milli ampere = micro ampere.					
2.	In mechanical energy is converted into electric energy.					
3.	Relation between resistance and resistivity is expressed as					
2.	Write the co-relation and fill in the blanks: [2M]					
1.	Combination with hydrogen : reduction :: combination with oxygen :					
2.	Density : gm/ cc :: Volume :					
В	Choose the correct alternative: [5M					
1.	The colour of th	he universal indicator is				
	(a)red	(b) blue	(c) green	(d) greeni	ish yellow	
2.	When the resist	tance of a conductor incre	ases, the current will			
	(a) increase	(b) decrease	(c) remain same	. ,	ofabove	
3.		ollowing converges rays of				
	(a) concave min					
	(c) elane mirror		(d) concave lens			
4.		day is celebrated as Na	tional Science Day.			
	(a) 28 <sup>th</sup> Feb	(b) 8 <sup>th</sup> March	(c) $14^{th}$ Nov	(d) $5^{th}$ M	lay	
5.	Which type of 1	mirror is used by dentist?				
	(a) Plane	(b) Convex	(c) Concave	(d) Parab	olic	
Q. 2	Solve any five	e questions:				[10M]
1.	What is meant by Doberiners traids? Explain with example.					
2.	Give scientific 1	reason - stars twinkle at nig	ght.			
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- 3. Find the expression for the resistors connected in series.
- 4. What is meant by *pH* Value? What is its use?
- 5. 'X' is an element belong to  $2^{nd}$  group and 'Y' is an element belongs to  $15^{th}$  group. Then find the valence electron of an element 'X' and valency of an element 'Y'.
- 6. Refractive index of water is 4/3 and speed of light in air is  $3 \times 10^8 m/s$ . Find the speed of light in water.

## Q.3 Answer any five questions of the following:

- 1. Give reason Calcium floats over water during the reaction with water.
- 2. What is meant by ionisation? Explain with suitable example.
- 3. What is refraction of light? Explain with suitable example.
- 4. State the rules for drawing ray diagrams of spherical mirrors.
- 5. Write any four used of heating effect of electric current.
- 6. Draw the figure of human eye and write the function of iris.

## Q.4 Attempt any one of the following:

- 1. Explain the electric generator with the help of the following points:
  - (a) Diagram of A.C. generator with labelling.
  - (b) Principle of electric generator
  - (c) Function of slip rings.
  - (d) Any two uses of generator.
- 2. Explain the occurence of advances sunrise and delayed sunset on the basis of atmospheric refraction.

[15M]

[5M]