## ANDHRA PRADESH – SSC EXAMINATIONS - MARCH – 2017 **IGNITE PHYSICS TARGET MODEL PAPER - 01**

## **GENERAL SCIENCE**, Paper - I

(Physical Sciences)

Time: 2 H	ours 45 Min.	Pa	rts A and B	Maximum Marks : 40
		PART-A		Max. Marks : 30
		S	ection - I	$4 \ge 1 = 4 $ Marks
1. Your frie awarene	end is not able to unde	erstand abo	out Rancidity. Prepare	two questions to ask him to make
2 Equal an	nounts of spirit are ke	ent in a cur	and in a dish Which	will evanorate faster? Why?
2. Equal and 3. Classify	the following as Ionic	pr il a cup molecule	s and Covalent molec	win evaporate faster: winy:
J. Classify				uics.
1 What is	the reason head the	chining of	diamonds and how d	o vou approviato it?
<b>4.</b> what is	the reason benind the	similing of	diamonds and now d	5 you appreciate it?
<b>- - - - - - - - - -</b>	1:00 1	50		$5 \times 2 = 10$ Marks
5. Write the	e differences between	evaporatio	on and boiling.	
6. How min	rages were formed ? I	explain.		
7. Explain	the formation of Line	ar shape in	BeCl <sub>2</sub> molecule with	Hybridisation concept ?
8. Imagine	that spherical mirrors	were not l	known to human bein	gs. Guess the consequences.
<b>9.</b> How do	you condemn the use	of alcohol	as a social practice.	
		Se	ection - III	4  x 4 = 16  Marks
10. Find th	e radii of curvature of	a convexo	- concave converge	nt lens made of glass with
refracti	ve index n=1.5 having	g focal leng	gth of 24cm. One of	the radii of curvature is double the
other.			(OR)	
What d	o you understand abo	ut Myopi	a ? How do you corre	ct it ? Explain.
11. Comple	ete the following table	. *	*	L L
Name of	Electorn	Valency	Number of	Whether it participates in Ionic
element	Configuration		valence electrons	or Covalent or Both bonds
Р	$1s^2 2s^2 2p^3$	ign	tephysics.weebly.com	Both
Q	$1s^2 2s^2 2p^2$	4		
R	$1s^2 2s^1$		1	Ionic
Т	$1s^2 2s^2 2p^6 3s^2 3p^3$			
			(OR)	
Given b	pelow is the electronic	configura	tion of elements A B	CDE

 $\sim 2 \circ 2 \circ 6 \circ 2$ 

A. 
$$1s^2$$
  
D.  $1s^2 2s^2 2p^6$ 

B.1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup> C.1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup> 
$$E. 1s^2 2s^2$$

Now answer the following.

- (i) Which are the elements coming with in the same period ?
- (ii) Which are the elements coming with in the same group ?
- (iii) Which are the noble gas elements?
- (iv) To which group and period does the elements 'C ' belongs to ?
- 12. How do you verify that resistance of a conductor is inversely proportional to the area of cross section of the conductor for constant length and temperature?

(OR)

Explain the procedure of an activity to prove that Copper sulphate is an example for water of crystallization.

13. Draw a neat schematic diagram of A.C. generator. What is the use of generator ?

(OR)

Which method is used to concentrate Sulphide ore. Draw a neat diagram that represent that method. Label the parts. NAGA MURTHY- 9441786635

				PART-B			Maximum Marks: 10					
				Section - IV	<b>20 x <math>\frac{1}{2}</math> = 10 Marks</b>							
14.	Phase	Phase change of a substance from liquid to gas at c						constant temperature is called[				
	(A)	Condensation	n (B)	Evaporation	(C)	Во	oiling	(D)	Sublin	nation		
15.	If an	If an object is placed at 20 cm distance from the pole of a concave										
	mirro	r, where should	d be the	image formed '	? (f = 1	0 cn	n)			[	]	
	(A)	Between 'F'	and 'P'		(B)	Be	eyond 'C'					
	(C)	Between 'F'	and 'C'		(D)	At	'C'					
16.	(i) Po	sitive value	(ii) N	egative value	(iii) L	less	than +1	(iii) C	Greater th	an -1		
	The r	The magnification of a convex mirror is										
	Choo	se the correct o	ption :							[	]	
	(A)	(i) and (iii)	(B)	(i) and (iv)	(C)	(ii	) and (iii)	(D)	(ii) and	d (iv)		
17.	Wher	When a light ray travelled from air in to a medium, the critical angle										
	was n	neasured as 30°	<sup>o</sup> . Find t	he refractive in	dex of t	the n	nedium.			[	]	
	(A)	2	(B)	$\sqrt{2}$	(C)	1		(D)	2			
18.	Lens	formula				Z			γ3	ſ	1	
201		$\frac{1}{1} = (n - 1) (1)$	1)		<b>(D)</b>	1	1 1			L	1	
	(A)	$\frac{1}{f} = (\Pi - I) \left(\frac{1}{R}\right)$	$\frac{1}{R_2}$		(D)	f	$-\overline{v}^+\overline{u}$					
	(C)	$\frac{1}{f} = (n-1)\left(\frac{1}{R}\right)$	$\left(\frac{1}{R_{e}}+\frac{1}{R_{e}}\right)$		(D)	$\frac{1}{f}$ =	$=\frac{1}{n}-\frac{1}{n}$					
19.	The v	vork done by cl	hemical	force to move	electror	, 1 fro	m positive	pole				
	to neg	pative pole in a	batterv	is	30		in positi (e	Polo		[	1	
	(A)	electro motiv	ve force	5	(B)	Pc	otential			L	L	
	(C)	Potential diff	erence	*	(D)	* El	ectric curre	ent				
20.	Mate	h the following	•	1								
	Set-II (Colours after corrosion)											
	(i) Iron ignite (a) Brown.com											
	(ii) Silver			(b) Black								
	(iii) C	Copper	(c) Gr	een								
	Choo	se the correct a	nswer :							[	]	
	(A)	(i)-a, (ii)-b, (	iii)-c		(B)	(i)	-a, (ii)-c, (i	ii)-b				
	(C)	(i)-c, (ii)-b, (	iii)-a		(D)	(i)	-b, (ii)-c, (i	iii)-a				
21.	Ident	ify the chemica	l displa	cement reaction	1					[	]	
	(A)	$H_2 + Cl_2 \rightarrow$	> 2HCl		(B)	2N	NH₄NO <sub>3</sub> →	≥ 2N <sub>2</sub> +	$+ O_2 + -$	$4H_2O$		
	(C)	2A1 + 3CuC	$Cl_2 \rightarrow 2$	$2AlCl_3 + 3Cu$	(D)	Pb	$(NO_3)_2 + 2$	$KI \rightarrow F$	Pbl <sub>2</sub> ( ) +	2KNO₃		
22.	Subst	ances (i) Acid	(ii) B	ase (iii) S	alt							
	Whic	Which of the above substance is an electric conductor ?										
	Choo	se the correct a	nswer :							[	]	
	(A)	(i) and (ii)			(B)	(i)	Only					
	(C)	(i), (ii) and (	iii)		(D)	(ii	) Only					
23.	The n	umber of Sigm	$a(\sigma) bo$	onds and Pi $(\pi)$	bonds	prese	ent in Nitro	gen mo	olecule	[	]	
	(A)	$1 \sigma$ and	$1 \pi$		(B)	10	$\sigma$ and	$2\pi$				
	(C)	$2\sigma$ and	$1 \pi$		(D)	10	$\sigma$ and	$3\pi$				
24.	Heati	ng ore in the at	osence c	of air is called	•••••	••••				[	]	
	(A)	Combustion	(B)	Burning	(C)	Ca	lcination	(D)	Roasti	ng	_	
							NAGA MUF Contact at Visit at : i	RTHY- 944 : <u>nagam</u> gnitephys	41786635 <u>urthysir@c</u> sics.weebly	<u>Imail.co</u> /.com	<u>m</u>	

25.	The f	The functional group that represents Aldehyde								[	]
	(A)	-COOH	(B)	-OH	(C)	-NH	2	(D)	-CHO		
26.	A fis	A fish is in a pond. A hunter wants to shoot the fish accurately. Then								[	]
	(A)	(A) He should shoot the image of the fish									
	(B) He should shoot below the image of the fish										
	(C) He should shoot above the image of the fish										
	(D)	Either he sl	noot the in	nage or above	the imag	ge of tl	he fish				
27.	P : A	P: An element 'X' has atomic number 18. It belongs to p-block.									
	Q : An element 'Y' has atomic number 19. It belongs to s-block.										
	Choo	se the correct	answer :							[	]
	(A)	P - True, Q	- True		(B)	P - T	True, Q - I	False			
	(C)	P - False, Q	) - True		(D)	P - F	alse, Q -	False			
28.	Mini	Minimum material needed to verify Oersted's experiment								[	]
	(A)	Battery, Co	mpass, Ba	ar magnet, Sw	vitch, Coj	pper w	vire				
	(B)	Compass, I	Bulb, Batte	ery, Ammeter	, Copper	wire					
	(C) Battery, Ammeter, Volt meter, Resistor, Switch, Copper wire										
	(D) Battery, Copper wire, Compass										
29.	Matc	h the followin	ng:								
		Set-I		Set-1	II (Colou	rs proc	duced whe	en heate	ed up)		
	(i) Cu	pric chloride		(a) Y	<i>Cellow</i>						
	(ii) Strontium chloride (b) Green										
	(iii) Sodium vapours (c) Red										
	Choo	Choose the correct answer :							[	]	
	(A)	(i)-a, (ii)-b,	(iii)-c	*	(B)	<sup>k</sup> /(i)-a,	, (ii)-c, (ii	i)-b			
	(C)	(i)-c, (ii)-b,	(iii)-a	Real Provide August 1990	(D)	(i)-b	, (ii)-c, (ii	i)-a			
30.	Obse	rve the follow	ing table.	VKE	BETT	_					
		Material	Resistivi	ty Material	Resist	ivity	Material	Resis	tivity		
			(in Ω-m	)	(in Ω-	me)		(in C	<b>2-</b> m)		
		Aluminium	2.82 x 10	<sup>-8</sup> Tungsten	5.60 x	10 <sup>-8</sup>	Nickel	6.99 2	x 10 <sup>-8</sup>		
	Ident	ify the correct	t material	that is a bad c	conductor	r of ele	ectricity.			[	]
	(A)	Aluminium	n (B)	Tungsten	(C)	Nick	el	(D)	None of	of these	;
31.	50 gr	n of an yellov	v colour su	ibstance was	taken in a	a wate	h glass				
	and kept under sunlight. After some time it turns in to grey/black										
	colour powder. The yellow colour substance is Silver bromide.										
	What	is the produc	rt?							[	]
	(A)	Silver oxid	e		(B)	Silve	er carbona	ate			
	(C)	Silver			(D)	Bror	nine				
32.		is visi	ion defect	when the abil	lity of ac	comm	odation of	f the ey	ye usuall	ly	
	decre	ases with age	ing.							[	]
	(A)	Hypermetro	opia		(B)	Pres	byopia				
	(C)	Myopia			(D)	Colo	our blindn	ess			
33.	I am	I am the most useful material for students to draw diagrams.									
	I am	an allotrope o	f carbon.	I have luster p	property.						
	Some	e body used m	ne as lubrio	cants. Who ar	n I ?					[	]
	(A)	Coal	(B)	Coke	(C)	Gran	ite	(D)	Graphi	ite	
								JRTHY- 9	44178663	5	
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