## ALLEN \_\_\_\_\_\_ SAMPLE PAPER-01

SA	MPLE PAPER-0	01	SCH	IOLAS		FITUDE	TEST	
101.	A body of mass 20 kg falls through a distance of 50 cm. Then the loss in potential energy on reaching the ground is -		<b>112.</b> A concave mirror of focal length is 10 cm produ an image five times large and real. The distant of object from the mirror will be -				em produces The distance	
	(1) 98 Joule	(2) 392 Joule		(1) 10 cm		(2) 12 cm		
	(3) 980 Joule	(4) 5000 Joule		(3) 16 cm		(4) 20 cm		
102.	Calorimeters are general	lly made of	113.	In an explos	ion a body b	reaks up into	two pieces	
	(1) Copper	(2) Brass		of unequal r	nasses. In thi	İS		
	(3) Aluminium	(4) Zinc		(1) both p	arts will ha	ave numerio	cally equal	
103.	1 Calorie is able to raise copper through approxim	e the temp. of 1 gm. of mately		(2) lighter part will have more momentum				
	(1) 1°C (2) 5°C	(3) 10°C (4) 20°C		(2) igner p				
104.	A particle in a medium co	mpletes 20 vibrations in		(3) heavier	part will have	e more mome	entum.	
	2.5 seconds. The freque	ncy of wave is		(4) both par	rts will have e	equal kinetic e	energy.	
	(1) 20 Hz (2) 200 Hz	(3) 50 Hz (4) 8 Hz	114.	A 100W, 20	0V bulb is co	nnected to a 1	160V power	
105.	The value of 1 Kilowatt 1	power in terms of horse		supply. The	power consu	imption wou	ld be	
	power will be			(1) 64 W		(2) 80 W		
	(1) 1.34 H.P.	(2) 746 H.P.	115	(3) 100 W	lunit of stor	(4) 125 W		
	(3) 786 H.P.	(4) 4.36 H.P.	115.	(1) Carbon 1		(2) Owngoon	16	
106.	A myopic eye can be co	rrected by using a		(1) Caroon-1	LZ	(2) Oxygen	-10	
	(1) Convex lens	(2) Concave lens	116	Which of the following isotopes of Uranium is				
107	(3) Plane mirror	(4) Cylindrical lens	unstable				Oranium is	
107.	In a solution of $CuSO_4$ , a	piece of Zn is dropped.		(1) U-234		(2) U-235		
	be	Juliess. This reaction will		(1) 0 201		(2) 0 200 (4) All the :	ahove	
	(1) Substitution reaction		117	An element have atomic number 19 and mi				
	(2) Decomposition reaction	on		number 39. The number of neutron in its nucleus				
	(3) Addition reaction			is				
	(4) Dissociation reaction			(1) 20	(2) 58	(3) 19	(4) 39	
108.	Decible is		118.	Mass percent	tage of nitrog	en in the com	pound N <sub>2</sub> O <sub>3</sub>	
	(1) a sound apparatus.			is				
	(2) a sount tone.			(1) 36.84	(2) 46.70	(3) 82.40	(4) 63.60	
	(3) the unit of intensity of	f sound.	119.	A metal M has its Chloride formula $\mathrm{MCl}_{\scriptscriptstyle 3}$ and				
	(4) the wave length of no	bise.		equivalent weight of metal is 9. Atomic weight of				
109.	The renewable source of	energy is		element is	(0) 1.0	(2) 07	(4) 0	
	(1) Coal	(2) Uranium	100	(1) 9	(2) 18	(3) 27	(4) 3	
	(3) Natural gas	(4) Geothermal power	120.	Atomic weig	gnt of an eler he valency o	nent is 30, it if elecment u	s equivalent	
110.	The first artificial satelite	was		(1) 1	(2) 2	(3) 3	$(\Lambda) \Lambda$	
	(1) Sputnik-1	(2) Explorer-1	191	Specific her	t of any olor	10, 0	The nearest	
	(3) Aryabhatta	(4) Luna-3	121.	atomic wt.	of that eleme	ent will be	me nearest	
111.	Titan is the largest moor	n or satellite of		(1) 32	(2) 64	(3) 62	(4) 48	
	(1) Mars (2) Venus	(3) Jupiter (4) Saturn		(-)	(- <i>)</i>	(-, - <b>-</b>	(-, -0	

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122.	The number of 1	nolecules i	n one mole of o	as is				
	(1) $6.023 \times 10^{23}$ (2) $6.023 \times 10^{22}$							
	(1) $6.023 \times 10^{21}$ (3) $6.023 \times 10^{21}$	( <u>-</u>	$(2) 0.023 \times 10^{}$					
193	$(0) 0.023 \times 10^{-1}$ (4) $0.023 \times 10^{-0}$							
120.	In the given beit	elow MITO <sub>2</sub> is catalyst as						
$2\text{KClO}_3 \xrightarrow{\text{MnO}_2} 2\text{KCl} + 3\text{O}_2$								
	(1) Positive Catal	yst (2	2) Negative Cata	alyst				
	(3) Auto Catalyst	(4	l) Induced Catal	yst				
124.	How much MgC	) is obtaine	d on heating 5	gm of				
	(MgCO <sub>3</sub> ) Magnes	sium Carbo	nate -					
	(1) 2.4 gm	(2	2) 2.38 gm					
	(3) 2.8 gm	(4	l) 3.28 gm					
125.	Valency of Cr in	CrPO <sub>4</sub> is						
	(1) 4 (2)	3 (3	B) 2 (4) 1	1				
126.	Match Column I	with II and	d Choose the c	orrect				
	option.			_				
	Colum	n I	Column II					
	(Substan	nce)	(pH value)					
	(a) Vinegar	(1)	/.4					
	(c) Blood	(11)	4.0					
	(d) Toothpast	te (iv)	8.0	)				
			d	J				
	a U	C (;;	i) (ir.)					
	(1) $(i)$ $(1i)$ $(1i)$ $(2)$ $(ii)$ $(iii)$	(i) (iz	u) (i)					
	(3) (ii) (iii)	(i)	(iv)					
	(4) (iii) (iv)	(i)	(ii)					
127.	Elements A, B, C	and D belo	D belongs in groups 1, 21					
	and 17 of the per	riodic table	respectively. Wł	nich of				
	the following pa	ir of eleme	etns would proc	luce a				
	covalent bond?	10						
	(1) A and D (2) C and D	(2	(2) $B$ and $C$					
198	Quinine is obtained from							
120.	(1)  hark  (2)	Fruit (S	(A)	oote				
129	Nocturnal bird is	iiuii (c	(3) leaves $(4)$ it					
127.	(1) Digoon (2) Sharrow							
	(3) Owl	(2	(4) Parrot					
130	(3) Gwi (4) Pariot <b>130.</b> Body temperature of human body is (1) 42℃ (2) 40℃ (3) 34℃ (4) 37℃ <b>131.</b> Budding is found in -							
100.								
131								
-01.	$(1) Mango \qquad (2) Veact$							
	(3) Panaua	(2	(4) Banana					
	(3) rapaya (4) Dahaha							

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132.	The unit of classification is						
	(1) Class		(2) Order				
	(3) Species		(4) Genus				
133.	Which of the	e following is a	a micronutrie	nt element?			
	(1) Mg	(2) K	(3) Ca	(4) Zn			
134.	Penicilline is	obtained fro	m				
	(1) Cycas		(2) Fungi				
	(3) Fern		(4) Algae				
135.	Cotton fibre	is obtained f	rom				
	(1) Seeds		(2) Phloem				
	(3) Leaves		(4) Roots				
136.	Vessel are a	bsent in					
	(1) Pinus wo	od	(2) Shishum wood				
	(3) Teak wo	bc	(4) Sal wood	ł			
137.	A substance	produced in	liver which p	revents the			
	freezing of l	blood is called	d				
	(1) Ptyalin		(2) Heparin				
	(3) Trypsin		(4) Insulin				
138.	Which of the	e following co	g contains phytochrome?				
	(1) Algae		(2) Fungi				
	(3) Yeast		(4) Angiospe	erm			
139.	Auxin horm	one was disco	overed by				
	(1) Went		(2) Moore				
	(3) Mehta		(4) Mendel				
140.	Which of the the following	options giver sentence?	n below would	not work in			
	In order for t	he body to ab	sorb and use_	these			
	must be brok	ken down by l	nydrolysis into	D			
	(1) polysacci (2) amino ac	ids. proteins	sacchandes				
	(3) fats, glycerol and fatty acids						
	(4) disacchar	ides, monosa	ccharides				
141.	The first gov	verner of the	portuguese i	n India was			
	(1) Albuque	rque	(2) De-Alme	eida			
	(3) Vasco-da	-Gama	(4) Bortholo	mew Diaz			
142.	When was t	he battle of F	Plassey fough	t?			
	(1) 1526 AI	).	(2) 1556 AI	D.			
	(3) 1757 AI	).	(4) 1761 AI	)			
143.	Kani Laxmi	bai is associat	ted with city				
	(1) Kanpur		(2) Awadh (4) $D_{cll}$				
	(3) Jhansi		(4) Deini				
L							

2

					5A1			
<b>ALI</b> 144.	The Founder of 'Brahmo Samaj' was			<b>155.</b> The minimum rainfall place in India				
	<ul> <li>(1) Rajaram Mohan Rai</li> <li>(2) Swami Vivekanand</li> <li>(3) Dayanand Saraswati</li> <li>(4) Ramkrishna parambans</li> </ul>			(1) Mathura	(2) Delhi			
				(3) Jaisalmer	(4) Leh			
			156.	Laterite soil is found in				
				(1) Uttar Pradesh	(2) Himanchal Pradesh			
145	Among the following who	his called 'Light fo Asia'?		(3) Kerala	(4) Punjab			
1 10.	(1) Mahavir	(2) Buddha	157.	Damodar is tributary of	river			
	(3) Akbar	(2) Badaha $(4)$ Ashoka		(1) Ganga	(2) Hugli			
146	The book unitten by Cor			(3) Suvarnrekha	(4) Yamuna			
140.	(1) Common will		158.	'Titan' is the largest moon or satellite of				
	(1) Common will (2) India Wina Errordom			(1) Mars (2) Venus	(3) Jupiter (4) Saturn			
	(2) Diagonary of India		159.	Longest River in the wo	rld is			
	(3) Discovery of India	Tuuth		(1) Missisippi	(2) Kango			
147	(4) My Experiment with	Irum	100	(3) Nile	(4) Ganga			
147.	(1) D	(0) D :	160.	(1) China	liated country in the world			
	(1) Ramanand	(2) Ramanuja		(1) Unina (2) India				
1.40	(3) Tukaram	(4) Chaitanya		(2) Illuia (3) United State of Ame	rica			
148.	The attainment of comp	olete Independance was		(4) Canada				
	Congress in	goal by mula malional	161	The first day session of Indian Constituent Assembly				
	(1) 1929 AD	(2) 1939 AD	101.	was Chaired by				
	(3) 1940 AD	(2) 1909 AD. (4) 1946 AD		(1) Dr. Rajendra Prasad				
1/19	Cabinet Mission comes te	Andia in		(2) Jawahar Lal Nehru				
147.	(1) 1945 AD	(2) 1946 AD		(3) B.R. Ambedkar				
	(1) $1945 \text{ AD}$ . (3) $1947 \text{ AD}$	(2) 1940 AD. ( $A$ ) 1948 AD		(4) Dr. Sachchidanand S	inha			
150	Who coined the famous sk	(F) ID AD.	162.	Indian Parliament consis	ts of			
150.	(1) Ashfaqua I Illah Khan	Jgan inquiao zindaoau :		(1) Lok Sabha and Rajya Sabha				
	(1) Asinaque Olian Milan (2) Chandra Shakhar Azz	ad a		(2) Lok Sabha, Rajya Sabha, Prime Minister				
	(2) Rhagat Singh	au		(3) Speaker, Lok Sabha				
	(J) Dhagat Shigh			(4) Lok Sabha, Rajya Sabha, President				
151	(4) Abui Malain Azau	of India is	163.	The maximum number of	f Anglo Indian who can be			
151.	(1) Kapua Kumari	(2) Indira Daint		nominated to the Lok S $(1)$ $(2)$ $(3)$ $(3)$	abha are			
	(1) Naliya Nullali	(2) Inuna Fonn	164	(1) 2 $(2) 3$	(3) 4 (4) 3			
159	(3) Point Califier	(4) Kallesiwaralli	104.	Constituent Assembly on				
152.	coast line?	ing state has the longest		(1) 15th August, 1947				
	(1) Guirat	(2) Maharashtra		(2) 30th June, 1948				
	(3) Kerela	(4) West Bengal		(3) 26th November, 194	19			
153	On which river is the Hi	cakud dam constructed?		(4) 26th January, 1950				
100.	(1) Narmada	(2) Godvari	165.	The chairman of the pla	nning commission is			
	(3) Mahanandi	(4) Kaveri		(1) Finance Minister	5			
154	'The Valley of Flower' lid	es in		(2) Prime Minister				
-010	(1) Jammu and kashmir	(2) Uttarakhand		(3) President				
	(3) Himachal Pradesh	(4) Kerala		(4) Governer of Reserve	Bank			
		· /		.,				

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166.	The Maximum strength of Lok Sabha has been fixed to			177.	<b>177.</b> The Supreme Command of Armed Forces of I is vested in				
	(1) 540 (2) 545	(3) 550	(4) 555		(1) The Chi	ef of the Arm	v Staff		
167.	The Vacancy of the offic	ce of the Presi	dent must be		(2) The Pres	sident of India	Ĺ		
	filled up within				(3) Ministry of Defence				
	(1) Ninty days	(2) Six mo	nths		(4) Adjutant	General			
160	(3) Nine months	(4) One ye	ear	178	The Armuje	s headed by			
168.	India is a secular state	is enunciated	in	170.					
	(1) Preamble of the Cor (2) Eurodemontal Rights	istitution			(1) the Chief of the Army Staff				
	(2) Directive Principles	of state polic	V		(2) The Deputy Chief of Army Staff				
	(4) Citizenship provision	s	9		(3) Master General				
169.	The Headquarter of UNO is located at				(4) General Officer Commanding-in-Chief				
	(1) London	(2) Rome		179.	The Indian Air Force is headed by				
	(3) New Delhi	(4) New Yo	ork		(1) The Chief of the Air Staf				
170.	The first summit of SA	ARC was hel	d at		(2) Air Officer Incharge Maintenance				
	(1) New Delhi	(2) Colomb	00		(3) Air Offic	er Incharge A	dministratior	1	
	(3) Dhaka	(4) Islamat	bad		(4) Air Offic	er Incharge P	ersonal and '	Training	
171.	Economic planning is a	subject of		180.	The Indian Navy is headed by				
	(1) Union list				(1) The Chief of Navel Staff				
	(2) State list				(2) Vice Chief of Naval Staff				
	(3) Concurcent list				(3) Deputy (	Chief of Nava	l Staff		
179	(4) Not specified in any list				(4) Chief of	Personnel			
172.	launched in the year		ie was lixeu	181.	1 If $\alpha$ and $\beta$ are the zeros of the polynomial f			mial $f(x) = x^2$	
	(1) 1969 (2) 1975	(3) 1977	(4) 1980		-5x + k su	uch that $\alpha - \beta$	$\beta = 1$ , the value of k is		
173.	'ADHAR' is a program	me			(1) 12	(2) 6	(3) 4	(4) 1	
	(1) to provide identify to	o Indian resid	ents	182.	If (x + 2) is	a factor of th	ie polynomia	al f(x), where	
	(2) Infrastructure Devel	opment			$f(x) = x^2 + ax + 2b$ and $a + b = 4$ . then the value				
	(3) Eduction				of a and b are				
	(4) Social Security				(1) $a = 1$ ,	b = 3	(2) $a = 3$ ,	b = 1	
174.	The time period of the	12th five ye	ar plan is	100	(3) $a = -1$ ,	b = 5	(4) $a = 5$ ,	b = -1	
	(1) $2001-07$	(2) 2012-	17	183.	If $1^{\circ} + 2^{\circ} + \dots + 9^{\circ} = 2025$ then				
175	(3) $2010-15$	(4) 2007-	12		$(0.11)^{3} + (0.11)^{3}$	).22) <sup>3</sup> +	(0.99) <sup>s</sup> w	ill be	
175.	by		represented		(1) 0.2695		(2) 2.695		
	(1) National Income	(2) Poverty	y Ratio		(3) 3.695		(4) 0.3695	)	
	(3) Unemployment rate	(4) Per Ca	pital Income	184.	If $\int \tan \theta + -$	$\frac{1}{2}$ = 2.the	n the value	of $tan^2\theta$ +	
176.	The Headquarters of the	e Indian Army	y is at		( ta	$an\theta$ ,			
	(1) New Delhi	(2) Nagpu	r -		$\frac{1}{\tan^2 \theta}$ will	be			
	(3) Bangalore	(4) Chenna	ni		(1) 4	(2) 2	(3) 1	(4) 8	
4									

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SPACE FOR ROUGH WORK