	Reli	able	R-NE ¹	Г(202	21)							
(A Unit of ALLEN Career Institute) (Reliable National Entrance Test)												
		ACADE	MIC SESSION : 2021	-22								
SAMPLE TEST PAPER (For X to XI Moving)												
Duration : 18 Min. Max. Marks : 96												
Name : Application Form Number												
Reg. Number : 2 0 1 1												
GENERAL INSTRUCTIONS												
1.	There are 06 pages in the booklet containing 24 questions of Physics (1 to 6) , Chemistry (7 to 12) , Mathematics(13 to 18) , Mental ability (19 to 24) each question carries 4 mark.											
	gadgets in any form is not allowed.											
3. 4	Write your Name and Roll No. in the space provided at the top of this booklet.											
	answer sheet.											
5.	Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.											
6.	No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.											
7.	7. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.											
		I	MARKING CRITERIA									
No. of	Questions	Tuno	Marks									
NO. 01	Questions	туре	Correct	Incorrect	Blank							
1-24 Only one correct			Q.No. 1 to 24 (4 Mark each) –1 negative marks									
	Corporate visit	e Office : Reliable Insti us at: www.reliableko	tute A-10 Road No.1, IPIA, Kota-3 ota.com +91-7427056522, 7568	824005 (Rajasthan), INDI 756522, 7425906522	Α							

PHYSICS

This section contains 6 multiple choice questions. Each question has four choices (1),(2),(3) and (4) out of which only one is correct

1. In the circuit shown in Fig. which of the following statement is correct ?



- (1) Pot. diff. across R is 10 V
- (2) Pot. diff. across the middle resistance is 15 V
- (3) Current through 20Ω resistance is 1A
- (4) Resistance $R = 16\Omega$
- 2. No force acts on the charge fired through a magnetic field, when the angle between its velocity and magnetic field is
 - (1) π (2) $\frac{3\pi}{4}$ (3) $\frac{\pi}{2}$ (4) $\frac{\pi}{4}$
- 3. Two bodies of masses $m_1 \& m_2$ are falling near the surface of earth. The ratio of their accelerations is
 - (1) $m_1 : m_2$ (2) $m_2 : m_1$ (3) 1:1 (4) None of these
- **4.** Two equal bar magnets are kept as shown in the figure. The direction of resultant magnetic field indicated by the arrow head at the point P is (approximately) :



- 5. A current of 2A passing through conductor produces 80 J of heat in 10 seconds. The resistance of the conductor is
 - (1) 0.5Ω (2) 2Ω (3) 4Ω (4) 20Ω



SAMPLE TEST PAPER (FOR X TO XI MOVING)

6. A metallic ring is attached with the wall of room in such a way that the plane of the ring lies in horizontal plane. When a magnet is vertically dropped along the axis of the ring, as shown in diagram, the induced current in the ring when seen from the top, will be :



(1) First clockwise then anticlockwise

(4) First anticlockwise then clockwise

- (3) In anticlockwise direction

CHEMISTRY

This section contains 6 multiple choice questions. Each question has four choices (1),(2),(3) and (4) out of which only one is correct 7. The set representing the correct order of first ionization enthalpy is (1) K > Na > Li(2) Be > Mg > Ca (3) B > C > N(4) Ge > Si > C 8. How many electrons are present in 'N' shell (IVth shell) of manganese (Atomic no. 25). (1)7(2) 2(3) 13 (4) 89. Which has the highest mass ? (1) 50 g of iron (2) 5 moles of N_2 (4) 10^{23} atoms of carbon (3) 0.1 g atom of Ag 10. Mendelev's periodic law is based on-(1) Atomic number (2) Atomic weight (3) Equivalent weight (4) Valency 11. Weight of CO₂ in gram in a 10 L cylinder at 5 atm and 27° C is about (1) 200 g (2) 224 g (3) 44 g (4) 89.3 g 12. Which of the following is an organic compound- $(1) CO_2$ $(2) C_3 O_2$ (3) HCHO (4) H₂CO₃



MATHEMATICS

This section contains 6 multiple choice questions. Each question has four choices (1),(2),(3) and (4) out of which only one is correct

13.	The 5^{th} and 13^{th} term of an A.P. are 5 and -3 respectively. The first term of the A.P. is											
	(1) 1	(2) 9	(3) – 15	(4) 2								
14.	Find the value of cos	$1^{\circ}\cos 2^{\circ}\cos 3^{\circ}\ldots\cos 10$	0°=									
	(1) 1	(2) 0	(3) –1	(4) Can't be determined								
15.	Find L.C.M. of $\frac{1}{3}, \frac{5}{6}$	$,\frac{5}{9},\frac{10}{27}$										
	$(1) \frac{1}{6}$	(2) $\frac{5}{27}$	(3) $\frac{10}{27}$	$(4) \frac{10}{3}$								
16.	Find the volume of t	he largest right circula	ar cone that can be cu	t out of a cube whose edge is								
	9 cm :											
	(1) 189.5 cm^3	(2) 190.93 cm^3	(3) 187.33 cm^3	(4) 201.35 cm^3								
17.	If one root of the polynomial $5x^2 - 13x + K$ is reciprocal of the other, then the value of K is											
	(1) 0	(2) 5	(3) 6	$(4) \frac{1}{6}$								
18.	The coordinates of th	e point where the line	2(x-3) = y - 8, meet	the x-axis								
	(1)(3,0)	(2)(2,0)	(3)(-1,0)	(4) None of these								

MENTAL ABILITY

This section contains 6 multiple choice questions. Each question has four choices (1),(2),(3) and (4) out of which only one is correct

19. Find analogous pair of C from the answer figures.





SAMPLE TEST PAPER (FOR X TO XI MOVING)

- 20. Pointing to a photograph, speaker tells Pramod, "I am the only daughter of this lady and her son is your maternal uncle." How is the speaker related to Pramod's father?
 (1) Sister-in-law
 (2) Wife
 (3) Either (1) or (2)
 (4) Neither (1) nor (2)
- 21. Five persons are standing in a line. Two persons, a professor and a businessman, are standing opposite to each other at extreme ends. An advocate is standing to the right of a student. An author is to the left of the businessman. The student is standing between the professor and the advocate. Counting from the left the advocate is at which place?

(1) 1^{st} (2) 2^{nd} (3) 3^{rd} (4) 5^{th}

- **22.** A dice is numbered from 1 to 6 in different ways. If 1 is adjacent to 2, 3 and 5, then which of the following statements is necessarily true?
 - (1) 4 is adjacent to 6 (2) 2 is adjacent to 5
 - (3) 1 is adjacent to 6 (4) 1 is adjacent to 4
- 23. Seven friends P, Q, R, S, T, U and V are standing in a straight line facing north but not necessarily in the same order.
 - U stands second from the left end of the line
 - Only two persons stand between U and T.
 - Only one person stands between P and R.
 - V stands third to the left of R.
 - Neither R nor U is an immediate neighbour of S

Which of the following is TRUE regarding Q?

- (1) P stands second to the left of Q.
- (2) S is one of the immediate neighbour of Q.
- (3) Only one person stands between Q and T
- (4) Q stands at one of the extreme ends of the line
- 24. In a certain language, If CALM is written as HEOO, YEAR may be written as
 - (1) DHDS (2) DTDH (3) DDHT (4) DIDT



SAMPLE TEST PAPER (FOR X TO XI MOVING)

Space for rough work



R-NET (SAMPLE PAPER) (X to XI moving students)

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	4	1	3	3	2	4	2	2	2	2	4	3	2	2	4	2	2	3	4	2
Que.	21	22	23	24																
Ans.	3	1	1	4																