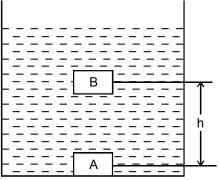
Reliable R-NET (2021) (A Unit of ALLEN Career Institute) ACADEMIC SESSION : 2021-22 SAMPLE TEST PAPER (For IX to X Moving)																					
											ouration : 18 Min. Max. Marks : 96										
											me	:	<i>k</i>	Application Form Numbe	r						
		Reg. Number : [2 0																		
		(GE	NERAL INSTRUCTIONS)																	
1. 2.	There are 5 pages in the booklet containing 24 questions of Physics (01 to 05), Chemistry (06 to 10), Mathematics (11 to 15), Biology (15 to 20) & Mental Ability (21 to 24), each question carry 4 mark. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic																				
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PHYSICS

This section contains 5 multiple choice questions. Each question has four choices (1),(2),(3) and (4) out of which only one is correct

- 1. When bike suddenly starts moving from rest, the rider tends to fall backwards. It is due to : (1) inertia of direction (2) inertia of motion (3) inertia of rest (4) momentum of bike
- 2. Two bodies A and B of same dimensions and same material are kept at different heights in a liquid. Which of the following statement is correct.



(1) A will experience greater upthrust

(2) B will experience greater upthrust

- (3) Both will experience equal upthrust (4) None of these
- A body travels half the distance with speed of 20 m/s and the other half with speed of 30 m/s. 3. The average speed of the body during whole journey is :
 - (2) 24 m/s (3) 23 m/s (4) none of these (1) zero
- The density of a block is 981 kg/m^3 . It is immersed in water. State the situation. 4.

(1) Sinks

- (2) partially immersed
- (3) No part immersed
- (4) None of these
- 5. When a constant force is applied to a body, it moves with uniform :
 - (1) speed (2) acceleration
 - (3) velocity (4) momentum

CHEMISTRY

This section contains 5 multiple choice questions. Each question has four choices (1),(2),(3) and (4) out of which only one is correct

6.	The atomicity of K ₂ C	rO ₄ is		
	(1) 9	(2) 6	(3) 7	(4) 12
7.	The process used to se	eparate oil and water is:		
	(1) Distillation	(2) Sublimation	(3) Separating funnel	(4) Chromatography
8.	The formula of a chlo	ride of a metal M is MF	3, the formula of the ph	osphate of metal M will be
	(1) MPO ₄	(2) M ₂ PO ₄	(3) M ₃ PO ₄	(4) $M_2(PO_4)_3$
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- 9. The isotopes of an element contain
 - (1) same number of neutrons but different number of protons
 - (2) same number of neutrons but different number of electrons
 - (3) different number of protons as well as different number of neutrons
 - (4) different number of neutrons but same number of protons

Plasma have 10.

- (1) Very low kinetic energy (2) Low kinetic energy
- (3) High kinetic energy

- (4) Highest kinetic energy.

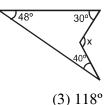
MATHEMATICS

This section contains 5 multiple choice questions. Each question has four choices (1),(2),(3) and (4) out of which only one is correct

- If 'a' and 'b' are rational numbers and $\frac{2+\sqrt{3}}{2-\sqrt{3}} = a + b$, $\sqrt{3}$ then b = 11.
 - (4) 8(1)4(2)7(3) 6
- 12. What is the value of the (x - y) (x + y), when x = 12 and y = -12? (2) 144(4) 0(1) 288(3) 12
- 13. The linear equation y = 2x + 3 cuts the y-axis at -
 - $(3)\left(\frac{3}{2},0\right)$ $(4)\left(\frac{2}{3},0\right)$ (1)(0,3)(2)(0,2)
- 14. The value of x in the given figure is -

 $(1) 20^{\circ}$

 $(1) 40^{\circ}, 30^{\circ}$

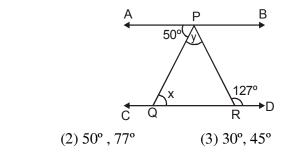


(4) 72°

 $(4) 90^{\circ}, 30^{\circ}$

If AB||CD, \angle APQ = 50° and \angle PRD = 127°, then x and y are 15.

 $(2) 223^{\circ}$



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BIOLOGY

This section contains 5 multiple choice questions. Each question has four choices (1),(2),(3) and (4) out of which only one is correct

16.	The function of the n	ucleolus in the cell is										
	(1) Secretory		(2) Synthesis of DNA									
	(3) Synthesis of RNA	A and ribosomes	(4) None of these									
17.	Which of the followi	ng phenomena is comm	g phenomena is commonly referred as 'cell drinking'?									
	(1) Exocytosis	(2) Pinocytosis	(3) Endocytosis	(4) Phagocytosis								
18.	Naked seeds are pres	ent in										
	(1) Pinus	(2) Mango	(3) Mustard	(4) Lemon								
19.	Which of the disease	s is not communicable?										
	(1) Chicken pox	(2) Cancer	(3) Measles	(4) None of these								
20.	Which of the followi	ng is a free living nitrog	gen fixing bacterium pre	sent in soil?								
	(1) Azotobacter	(2) Clostridium	(3) Rhizobium	(4) Pseudomonas								

MENTAL ABILITY

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

- **21.** Choose the odd one out.(1) Flute(2) Guitar(3) Sitar(4) Violin
- 22. Which of the following diagrams indicates the best relation between Bus, Bike and Vehicle ?

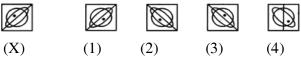


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(0)

23. Choose the correct water image of the given figure (X) from amongst the four alternatives.



(2)

24. Solve the given equation to find the answer

 $(370 \div 70) + 309 - 847 + 86 = ?$

 $(1) - 445.72 \qquad (2) - 464.7 \qquad (3) - 456 \qquad (4) - 446.72$

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SAMPLE TEST PAPER (FOR IX TO X MOVING)

Space for rough work



R-NET (SAMPLE PAPER) (IX to X 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.	3	3	2	2	2	3	3	1	4	4	1	4	1	3	2	3	2	1	2	1
Que.	21	22	23	24																
Ans.	1	3	2	4																

R-NET (2020)