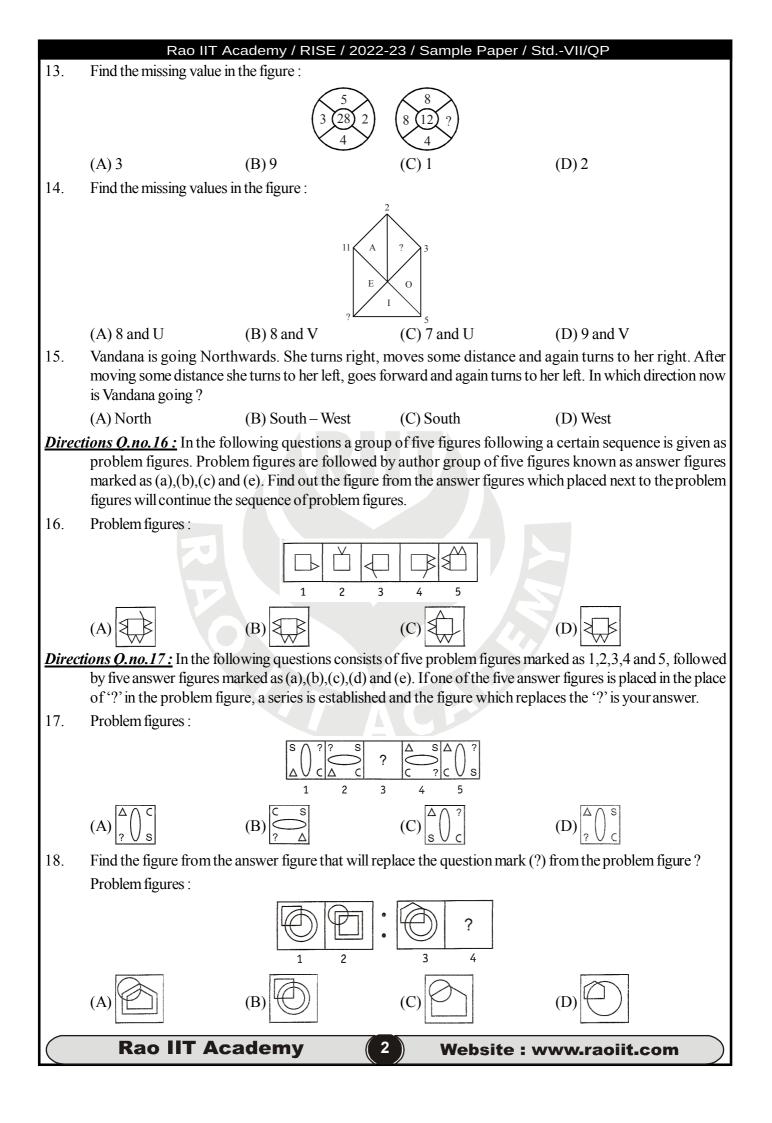
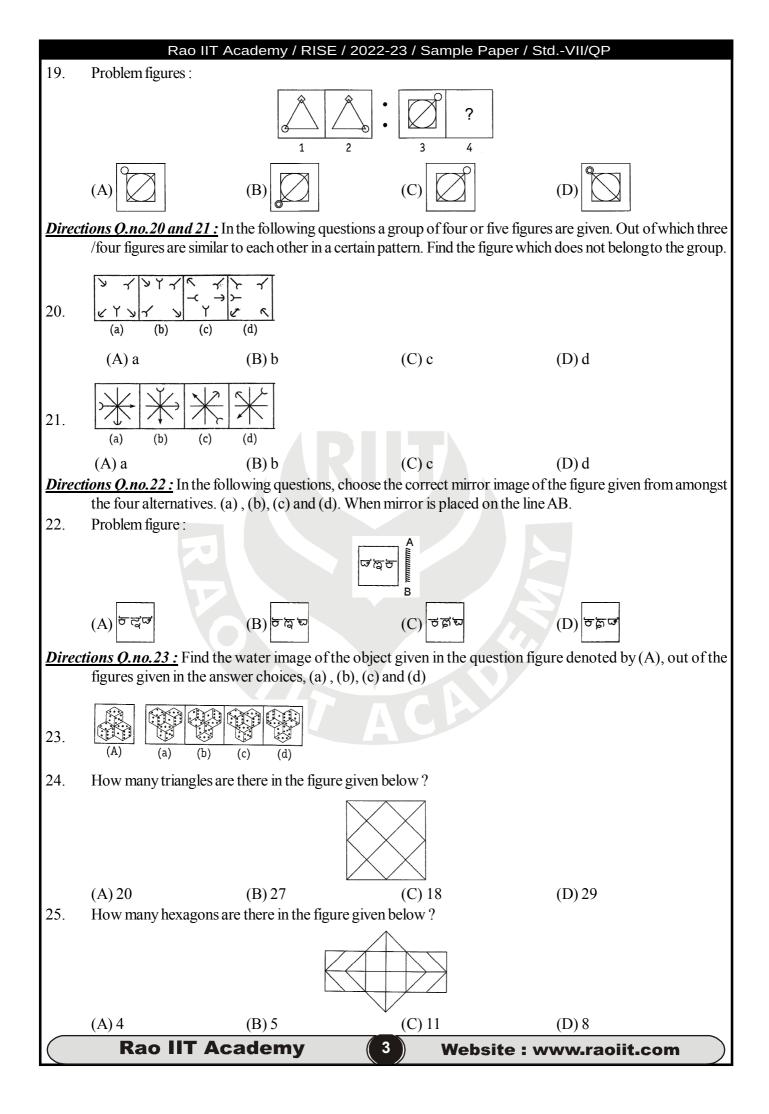
	Rao II I	Academy / RISE / 2022 Section - I: M	2-23 / Sample Paper / S ENTAL ABILITY	staVII/QP					
*	O.No. 1 to O.No. 25			s only one correct answer.					
***				Answer : –1, Unattempted: 0)					
1.		of question mark (?) in the							
1.	(A) 1541	(B) 4411	(C) 1600	(D) 1441					
2.		Replace the question mark (?) in the series given below with the suitable option.							
	2,3,7,16,32, ?,								
	(A) 57	(B) 37	(C) 48	(D) 55					
3.		of question mark (?) in the		(D) 55					
	B,C,E,H,L, ?								
	(A) M	(B) N	(C) P	(D) Q					
1.		mark (?) in the following se		(-)					
	L, LL, LLLL, LLLLL								
	(A) LLLLLLLL	(B) LLLLLLLLLLL	(C) LLLLLLLLL	(D) LLLLLLLLL					
			· · /	words on one side of (::) and one					
	<b>U</b>	-	1 0	he given alternatives having the					
	same relation with this	s word as the words of the	given pair bear. Choose th	ne correct					
	alternative.								
	House : Door : : Com	pound:?							
	(A) Gate	(B) Fence	(C) Foundation	(D) Wall					
	01		1 0	words on one side of (::) and one					
	word is given on another side (::) while another word is to be found from the given alternatives having the								
		same relation with this word as the words of the given pair bear. Choose the correct							
	alternative.	·····14··· 9							
	Truthfulness : Lair : : Loyalty : ?								
	(A) Worker Find out the pair in wh	(B) Traitor	(C) Dilligent	(D) Faithful					
•	given pair bear.	Find out the pair in which the words bear the same relationship to each other as similar to the words of the given pair bear							
	India : Tricolour								
	(A) China : Sickle and	Hammer	(B) UK : Red Cross						
	(C) USA : Stars and S		(D) None of these						
		1		er as similar to the words of the					
-	given pair bear.	Find out the pair in which the words bear the same relationship to each other as similar to the words of the given pair bear.							
	Fish : Shoal								
	(A) Audience : Theate	er (B) Shark : School	(C) Elephant : Flock	(D) Whale : Herd					
-			· / -	, then what will be the code for					
	'VIKAS'	-							
	(A) BXNLZ	(B) ZXYCN	(C) BXLNZ	(D) LNCBD					
0.	If $B = 2$ and $BAG = 1$	0, then $BOX = ?$							
	(A) 36	(B) 39	(C) 41	(D) 52					
1.	Find the odd word.								
	(A) Orange	(B) Apple	(C) Guava	(D) Grapes					
2.	Find the odd word.								
	(A) Square	(B) Sphere	(C) Rectangle	(D) Circle					
	Rao IIT A	cademy	1 Website : v	www.raoiit.com					





	Rao IIT Academy / RISE / 2022-2	23 / Sample Paper / StdVII/QP						
	Section - II :	SCIENCE						
*	Q.No. 26 to Q.No.35 Single correct answer type: In this type there is only one correct answer.							
	Choose only one option for an answer : (Correct Answer : +3, Wrong Answer : -1, Unattempted:							
26.	(A) Because the flow of electricity in the circuit is less.							
	(B) Because the flow of electricity in the circuit is							
	(C) Because the flow of electricity in the circuit is g	greater.						
27.	(D) None of these							
27.	<ul><li>Which of the following is an electrical conductor?</li><li>(A) Silver</li></ul>	(B) Cork						
	(C) Silver- coloured plastic	(D) Wood						
28.	Which of the following is an example of a self - lun							
	(A) Sun (B) Moon	(C) Electric bulb (D) Earth						
29.	Two blocks A and B moving with different speed	are to be stopped. If speed of A is more than speed of B.						
	Which one is easier to stop.							
	(A) A (B) B	(C) Depends on mass (D) None of these						
30.	Identify the correct statement							
	(A) All acid salts turn blue litmus red.	(B) All normal salts are neutal to litmus						
31.	(C) All basic salts turn red litmus blue Which of the following is a difference between ther	(D) All of these						
51.	(A) Thermoplastics can be processed repeatedly	inoplastic and thermosetting plastics ?						
	(B) Thermosetting plastics cannot be softened by h	neating						
	(C) Thermoplastics do not undergo chemical change							
	(D) All the above							
32.	The polyatomic ion is							
	(A) Sulphide (B) Chloride	(C) Sulphate (D) nitride						
33.	A mutually beneficial relationship between two livi	ing organisms is called and an example of this is						
	(A) parasitism, mycorrhiza	(B) predation, mycorrhiza						
	(C) symbiosis, lichens	(D) parasitism, lichens						
34.	The dental formula for adult human beings is	(D) parasitisiti, iteretis						
J <del>.</del>	(A) $2123/2123$ (B) $3142/3143$	(C) 2120 / 2120 (D) 3131 / 3121						
35.	What are the products of aerobic respiration?	(C) 21207 2120 (D) 51517 5121						
55.		(C) $CO_2 + H_2O$ (D) $H_2O + O_2$						
*		type: In this type there are one or more than one for the correct options are marked						
	correct answer. Marks will be awarded only if all the correct options are marked.							
	(Correct Answer : +4, Wrong Answer : 0)							
36.	If density of a substance A and B is 5 gm/cm <sup>3</sup> and	$11500 \text{ kg/m}^3$ . The relative density of A and B are						
	(A) Relative density of $A = 10$	(B) Relative density of $B = 15$						
	(C) Relative density of $A = 5$	(D) Relative density of $B = 3$						
37.	_	n 4N force is applied on it. How much is the friction force						
	on it $(1)$ $(2)$							
_	(A) 2N (B) 4 N	(C) 8 N (D) Zero						
$\bigcap$	Rao IIT Academy 4	Website : www.raoiit.com						

	Rao IIT	Academy / RISE / 20	022-23 / Sample Paper	/ StdVII/QP				
38.		ng is correct about oxyge	'n					
		g Atomic Number – 16						
	(B) Oxygen is bivalen							
		ic configuration of oxyge						
~		d by photosynthesis is pla						
39.		ons of the correct stateme	ent/s.					
	(i) a tadpole respires t							
		als possess lungs for gase	0					
		chly supplied with blood						
			cles for gaseous exchange					
l	(A) $(i)$ and $(iv)$	(B) $(i)$ and $(ii)$	(C) (ii) and (iii)	(D) (iv) and (ii)				
40.		tement out of the following	e					
		-	ngth is greater then small i					
l			roken down during digest					
			stomach from the action of	of enzymes and acids.				
	(iv) Small intestine is	smaller in diameter than l	large intestine.					
	$(\mathbf{A})(\mathbf{i})$	(B) (ii)	(C) (iii)	(D) $(iv)$				
*	Q.No.41 Matrix M	atch Type: In this typ	e statements are given	in 2 columns which have to be				
				s A, B, C and D, while the state-				
				each option in column-I, there is				
	only one correct option available in column-II :							
	(Correct Answer : + 1.25 marks for each correct match, Wrong Answer : 0)							
41.	Match the following:	Match the following:						
	Column A		Column B	7				
	(Element)		(Valency)					
	(A) Neon		(p) 6					
	(B) Oxygen		(q) 10					
	(C) Potassium		(r) 8					
	(D) Boron		(s) 5					
			(t) 19					
*	Q.No. 42 to Q.No.4	6 Integer type: The ans	swer to each question is	an integer ranging from 0 to 9 :				
	(Correct Answer : +	+4, Wrong Answer : 0)						
42.	If two plane mirror a	re inclined at an angle of	f 90°, the number of image	e formed is				
43.	What is the accelerat	tion in $m/s^2$ of a 5kg blo	ock if 15 N force is acting o	on it.				
44.	Which among the foll	-						
	-	O, HClO <sub>2</sub> , HCl , CH <sub>3</sub> Co	OOH, KOH , NH₄OH					
45.	The valency of 'Fe'	- 2	· .					
46.		2 5	med with photosynthesis?					
	Leaf, Flower, Chloroplast, Chlorophyll, Stomata, Fruit, Seed							

Rao IIT Academy

(5)

Website : www.raoiit.com

	Rao	IIT Academy / RISE /	2022-23 / Sample Pape	r / StdVII/QP					
		Section - I	II: MATHEMATICS						
*			•• ••	rre is only one correct answer. ong Answer : –1, Unattempted: 0)					
47.	Find the digit in the unit place of $(676)^{99}$								
	(A) 9	(B) 2	(C) 4	(D) 6					
48.	If $x^2 + y^2 + xy = 1$ and $x + y = 2$ then find xy.								
	(A) - 3	(B) 3	(C) $-\frac{3}{2}$	(D) Does not exists					
49.	In a fraction if bo	oth the numerator and th	e denominator are decreas	sed by one, it is equal to $\frac{1}{2}$ . If the					
	numerator is incre	eased by 2, it is equal to $\frac{2}{3}$	• then the fraction will be						
	(A) $\frac{10}{9}$	(B) $\frac{15}{8}$	(C) $\frac{8}{15}$	(D) 12					
	(A) $\overline{9}$	(B) $\frac{8}{8}$	(C) $\frac{15}{15}$	(D) $\frac{12}{13}$					
50.	If $(1,1)$ is mid po	int of $(2, 2)$ and $(a, b)$ the	n a + b equals						
	(A) 4	(B) 0	(C) 2	(D) None of these					
51.	If 14 kg of pulses	cost Rs. 441, then cost o	f 22 kg of pulses will be						
	(A) 627	(B) 649	(C) 671	(D) 693					
52.	The compound in	terest when Rs. 125000 is	invested for 9 monts at 8%	per annum, compounded quarterly.					
	(A) 7651	(B) 7652	(C) 7653	(D) 7654					
53.	In the following fig	gure, if $\angle ACB = 30^\circ$ , the	en ∠ADB =						
	(A) 60°	(B) 36°	(C) 30°	(D) 40°					
54.	Given GK – MI	$\angle GKM \simeq \angle IMK$ the	en AGKM and ALMK at	<i>~</i> e					
	Given $GK = ML$ , $\angle GKM \cong \angle LMK$ then $\triangle GKM$ and $\triangle LMK$ are								
	(A) Congruent	(B) Similar	(C) Different	(D) None of these					
55.	The altitude of the	e rhombus, whose area is	$315 \text{ cm}^2$ and its perimeter	is 180 cm, is					
	(A) 6 cm	(B) 7 cm	(C) 8 cm	(D) 9 cm					
56.	The mean of follo	wing data table is							
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$								
	(A) 36.36	(B) 36.56	(C) 36.67	(D) 36					
	Rao IIT	Academy	6 Website	: www.raoiit.com					
			The site						

	Rao IIT Academy / RISE / 2022-23 /							
***	Q.No. 57 to Q.No.61 Multiple correct answer type: In this type there are one or more than on correct answer. Marks will be awarded only if all the correct options are marked.							
	(Correct Answer : +4, Wrong Answer : 0)							
57.	Factors of $x^4 + y^4 - x^2y^2$ will be							
	(A) $x^2 + y^2 + \sqrt{3} xy$ (B) $x^2 + y^2 + xy$ (C	$x^2 + y^2 - xy$	(D) $x^2 + y^2 - \sqrt{3} xy$					
58.	If A(1,1), B( $-1$ ,1), C( $-1$ , $-1$ ) and D(1, $-1$ ) are 4 given points then							
	· · · · · · · · · · · · · · · · · · ·	B) ABCD is a square						
-		0) Area of ABCD is 4						
59.	In a class of 50 students 40% are girls, then (A) No. of girls = 20. (B) No. of girls = 20. (C)	$N_{0} = 20$	(D) No. of $have = 20$					
60.	(A) No. of girls = 20 (B) No. of girls = 30 (C) In the given figure $\angle AOC$ and $\angle BOC$ form a linear	, ,						
00.		y = 00, m						
	(A) $x = 120^{\circ}$ (B) $x = 60^{\circ}$ (C)	C) $y = 60^{\circ}$	(D) $y = 120^{\circ}$					
61.	(A) $x = 120$ (B) $x = 00$ (C) In following figure O is centre of circle AB and CD are							
01.			D = 100 then					
	E	70						
	(A) $\angle DOC = 100^{\circ}$ (B) $\angle DEC = 50^{\circ}$ <sup>B</sup> (C	C) $\angle OAB = \angle OBA$	(D) None of these					
*	Q.No.62 Matrix Match Type: In this type statem	· · · · · · · · · · · · · · · · · · ·						
·	matched. The statements in Column – I are label							
	<i>ments in Column- II are labeled with choices p,q</i> <i>only one correct option available in column-II :</i>	f,r,s ana t. For each c	option in column-1, there is					
()	(Correct Answer : + 1.25 marks for each correct m		r : 0)					
62.		olumn II ) 0,1,2,3,4,5,						
		) 1,2,3,4,5,						
	(C) Integers (r)	$\frac{3}{-5}, \frac{-7}{9}, \frac{13}{9}, \frac{-11}{36}$						
		0 ) 50	1 2 2					
*	(D) Rational Numbers (s) <i>Q.No. 63 to Q.No.67 Integer type: The answer to e</i>	(1,, -4, -3, -2, -1, 0)	, 1, 2,3 teger ranging from 0 to 9:					
***	(Correct Answer : +4, Wrong Answer : 0)	1						
63.	If the value of $2x + 3$ is equal to $3 - 2x$ then find the x	value of $7 + x^{50}$						
64.	Number of lines which are parallel to $y = x$ at a distant							
65.	Henry sold a bicycle at 8% gain, had it been sold for Rs	s 75 more, the gain wo	ould have been 14% if the cost					
	price of bicycle is x, then $\frac{x}{250}$ will be							
	250							
66.	If $A_1$ is area of circle having radius 2R and $A_2$ is area	a of circle having radiu	s R then $\frac{A_1}{A_1}$ will be					
			$A_2$					
67.	If the mean of the following frequency distribution is 9, then value of $\left(\frac{a}{6}\right)$ will be							
		(6)						
	$x_i \ 4 \ 6 \ 8 \ 10 \ 12 \ 15$							
	$f_i 8 9 17 a 8 4$							
	Rao IIT Academy 7	Website - w	ww.raoiit.com					
		HENSILE I W						

		Rao I	IT Academy	/ RISE / 2	022-23 / S	ample Pap	per / StdVII	/ KEY	
				ANS	WERK	EY			
			•						
1.	(D)	2.	(A)	<u>tion - I :</u> 3.	(D)	<b>L ABILII</b> 4.	(B)	5.	(A)
1. 6.	(B)	2. 7.	(A) (C)	<i>3</i> . 8.	(D) (C)	ч. 9.	(B) (C)		(A) (C)
0. 11.	(D)	12.	(C) (B)	13.	(C) (D)	). 14.	(C)	16.	(C) (A)
16.	(B)	17.	(D)	18.	(B)	19.	(C) (A)	20.	(A)
21.	(B)	22.	(C)	23.	(B)	24.	(A)	25.	(B)
				Section	- II : SC	IENCE			
26.	(C)	27.	(A)	28.	(A)	29.	(C)	30.	(D)
	(D)	32.	(C)	33.	(C)	34.	(A)	35.	(C)
	(C)	37.	(B)	38.	(B, D)	39.	(B), (C)		
40.	(B), (C), (D)	41.	$A \rightarrow q = B$	$3 \rightarrow r C$	$\rightarrow t D \rightarrow$	· s			
42.	(3)	43.	(3)	44.	(4)	45.	(+3)	46.	4
			Se	ction - II	: MATH	EMATIC	S		
47.	(D)	48.		49.	(C)	50.	(B)	51.	(D)
52.	(A)	53.	(C)	54.	(A)	55.	(B)	56.	(B)
57.	(AD)	58.	(BD)	59.	(AC)	60.	(AC)	61.	(ABC)
62.	(A)	63.	(7)	64.	(2)	65.	(5)	66.	(4)
67.	(6)								
_									
	Rao	IIT /	Academ	<b>y</b>		Websit	te : www	raoiit.co	om