

Branch Office : 265-A, Lajpat Nagar, Opp. Mission Hospital, Jalandhar

RAISE

(Reynott Academics and Intelligence Scholarship Examination) SAMPLE PAPER

Class - 9th

Syllabus of the Test : Science & Mathematics of Class 8th

Time : 2 Hrs.

GENERAL INSTRUCTIONS:

1. All questions are compulsory.

- 2. Blank paper, clipboard, log tables, calculators, cellular phones and electronic gadgets in any form are not allowed inside the examination hall.
- 3. Use only Black/Blue Ball Pen for filling the OMR. Do not use Gel/ Ink/ Felt pen as it might smudge the OMR.
- For each right answer you will be awarded 4 marks if you darken the bubble corresponding to the 4. correct answer and zero marks if no bubble is darkened. In case of bubbling of incorrect answer, NO **NEGATIVE MARK** will be awarded.
- 5. This Question Paper consists of 90 questions. Please check before starting to attempt. The question paper consists of five Sections, Section-A (Physics: 1 to 15), Section-B (Chemistry: 16 to 30), Section-C (Biology: 31 to 45), Section-D (Mathematics: 46 to 70), Section-E (Mental Ability: 71 to 90).

SECTION-A (PHYSICS)

- 1. An electric current can produce
 - (A) heating effect only
 - (C) magnetic effect only
- 2. Which one of the following solutions will not conduct electricity?
 - (A) lemon juice
 - (C) tap water

- (D) vegetable oil
- 3. Which of the following metals is used in electroplating to make objects appear shining?
 - (A) iron
 - (C) chromium
- 4. A list of mediums is given below.
 - (i) wood (iii) air
 - (ii) water (iv) vacuum
 - In which of these mediums can sound travel?
 - (A) i & ii only
 - (C) iii & iv only
- 5. Pitch of sound is determined by its
 - (A) frequency
 - (C) speed
- 6. The loudness of sound is determined by the
 - (A) amplitude of vibration
 - (C) frequency of vibration

(B) vinegar

(B) chemical effect only

(D) chemical, heating, and magnetic effects

(B) ratio of amplitude and frequency of vibration

(D) product of amplitude and frequency of vibration

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MM: 360

(D) aluminium

(B) i, ii & iii only

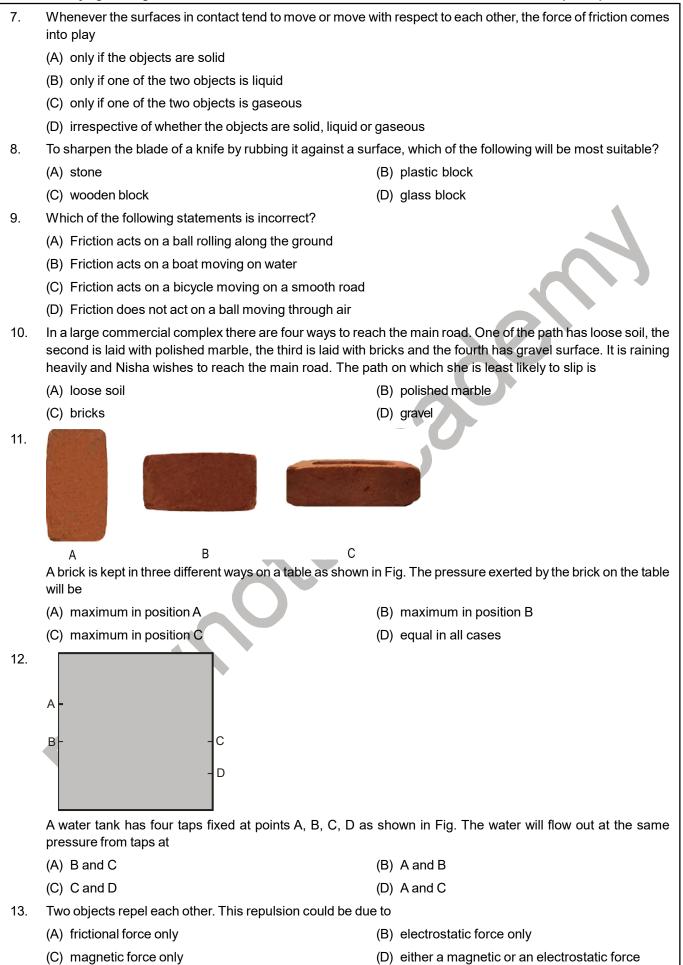
(D) ii, iii & iv only

(B) amplitude

(D) loudness

(B) copper

Class-8th Studying Moving to Class-9th



Sample Paper for RAISE

Figure shows a container filled with water. Which of the following statements is correct about pressure of 14. water? A В C (B) Pressure at A=Pressure at B=Pressure at C (A) Pressure at A> Pressure at B> Pressure at C (D) Pressure at A< Pressure at B<Pressure at C (C) Pressure at A< Pressure at B>Pressure at C 15. In the circuit shown in Figure, when the circuit is completed, the hammer strikes the gong. Which of the following force is responsible for the movement of hammer? (A) gravitational force alone (B) electrostatic force alone (C) magnetic force alone (D) frictional force alone **SECTION-B (CHEMISTRY)** The element which should be stored in the Kerosene oil is 16. (A) Phosphorus (B) Mercury (C) Sodium (D) Calcium 17. Bronze is an alloy of (A) Cu, Mn and Cl (B) Cu and Sn (C) Zn and Ag (D) Ag, Al and Zn 18. The least percent of carbon is found in (A) Wrought Iron (B) Steel (C) Cast Iron (D) pig iron Coating of zinc on the iron is called 19. (A) Amalgam (B) Coating (C) Galvanisation (D) Polishing 20. The lustre of metal is due to (A) It's high density (B) It's high polishing nature (C) It's chemical inertness (D) Presence of free electrons Non-metallic oxides are 21. (A) acidic (B) basic (C) neutral (D) (A) and (C)

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22.	Reactivity series gives					
	(A) arrangement of metals in the order of decreasing reactivity					
	(B) arrangement of non-metals in the order of decreasing reactivity					
	(C) arrangement of metals in the order of increasing reactivity					
	(D) arrangement of non-metals in the order of increa	asing reactivity				
23.	Which of the following metals is soft					
	(A) Na	(B) Pb				
	(C) Al	(D) Cu				
24.	Due to it's semiconductor properties, the non metal used in computer, T.V. etc. is					
	(A) Carbon	(B) Silicon				
	(C) Bromine	(D) Fluorine				
25.	Which of the following are natural fibres					
	(A) Nylon, polyester and spandex	(B) Viscose, rayon				
	(C) Wool, silk and hemp	(D) Petroleum, coal and natural gas				
26.	The major raw materials for Rayon is obtained from					
	(A) wood	(B) coal				
	(C) petroleum	(D) both coal and petroleum				
27.	The plastics which soften upon being heated but rega	ains all it's original properties on cooling are known				
	(A) Thermoplastics	(B) Thermosetting plastics				
	(C) Thermoelastic (D) None of the above					
28.	J. J					
	(A) Bakelite	(B) Polystyrene				
	(C) Polythene	(D) Thermocol				
29.	Which is known as artificial silk					
	(A) Rayon	(B) Nylon				
30.	(C) Dacron Disposal of plastic is a major problem because	(D) Polyester				
30.	(A) It is non biodegradable	(B) It is biodegradable				
	(C) It is flame retardant	(D) All of these				
	SECTION-C (BI	OLOGY)				
31.	Propagation of ginger is generally done using					
	(A) seed	(B) stem (rhizome)				
	(C) root	(D) leaf				
32.	Which of the following tools would a farmer use to remove	ve weeds from the field?				
	(A) Hoe	(B) Plough				
	(C) Axe	(D) Cultivator				
33.	Which of the following is not true for fertilisers?					
00.	(A) They increase the yield.					
	(B) Their excessive use disturbs the balance of nutrients in soil.					
	(C) They are generally used in small quantity.					
	(D) They are environment friendly.					

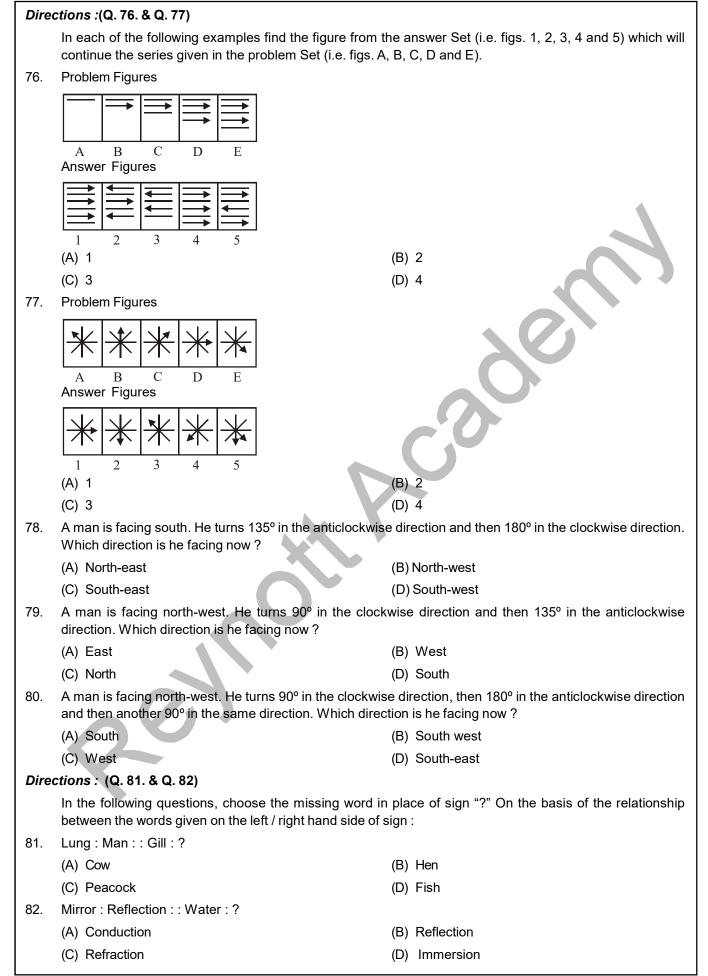
	Paper for RAISE	Class-8 th Studying Moving to Class					
34.	The system of irrigation where in water is supplied						
	(A) pulley system	(B) drip system					
	(C) sprinkler system	(D) lever system					
35.	Which of the following reproduces only inside a ho	st cell?					
	(A) Bacteria	(B) Virus					
	(C) Amoeba	(D) Fungus.					
36.	The two micro-organisms which live in symbiotic association in lichens are						
	(A) fungus and protozoa	(B) alga and bacteria					
	(C) bacteria and protozoa	(D) alga and fungus					
37.	The disease caused by a protozoan and spread by an insect is						
	(A) dengue	(B) malaria					
	(C) polio	(D) measles					
38.	Which one of the following changes may occur due	e to desertification?					
	(A) Decrease in atmospheric temperature.						
	(B) Increase in water holding capacity of soil.						
	(C) Increased chances of floods.						
	(D) Conversion of fertile land into a desert.						
39.	The place meant for conservation of biodiversity in	their natural habitat are					
	(i) Zoological garden	(iii) Wildlife sanctuary					
	(ii) Botanical garden	(iv) National park					
	(A) i & ii;	(B) ii & iii;					
	(C) iii & iv;	(D) i & iv					
40.	The Red Data Book keeps a record of all the						
	(i) endemic species	(iii) endangered plants					
	(ii) extinct species	(iv) endangered animals					
	(A) i & ii;	(B) ii & iii;					
	(C) iii & iv;	(D) i & iv					
41.	In our country, large patches of forests are being cleared for cultivation of crops. The environmental impact of such a practice will lead to						
	(A) soil erosion	(B) soil conservation					
	(C) soil pollution	(D) soil fertility					
42.	Majority of cells cannot be seen directly with our n	aked eyes because:					
	(A) organisms are generally unicellular						
	(B) cells are microscopic						
	(C) cells are present only inside the body						
	(D) cells are grouped into tissues						
43.	Which one of the following term is not a part of the	nucleus?					
	(A) ribosome	(B) nucleolus					
	(C) chromosome	(D) gene					
44.	The unit of measurement used for expressing dime						
	(A) centimeter	(B) millimeter					
	(C) micrometer	(D) metre					
45.	Cheek cells do not have						
	(A) cell membrane	(B) nucleus					
	\ /	(-)					

SECTION-D (MATHEMATICS)						
46.	To get the product 1, we should multiply $\frac{8}{21}$ by					
	8	-8				
	(A) $\frac{8}{21}$	(B) $\frac{-8}{21}$				
	(C) $\frac{21}{8}$	(D) $\frac{-21}{8}$				
47.	The reciprocal of $\frac{-3}{8} \times \left(\frac{-7}{13}\right)$ is					
	(A) $\frac{104}{21}$	(B) $\frac{-104}{21}$				
	(C) $\frac{21}{104}$	(D) $\frac{-21}{104}$				
48.	Which of the following is not true?					
	(A) Rational numbers are closed under addition	(B) Rational numbers are closed under subtraction.				
	(C) Rational numbers are closed under multiplication	(D) Rational numbers are closed under division.				
49.	Data represented using circles is known as					
	(A) Bar graph	(B) Histogram				
	(C) Pictograph	(D) Pie chart				
50.	In a pie chart, the total angle at the centre of the circle is	3				
	(A) 180°	(B) 360°				
	(C) 270°	(D) 90°				
51.	What is the probability of choosing a vowel from the alph	abets?				
	(A) $\frac{21}{26}$	(B) $\frac{5}{26}$				
	(C) $\frac{1}{26}$	(D) $\frac{3}{26}$				
52.	A coin is tossed three times. The number of possible ou	tcomes is				
	(A) 3	(B) 4				
	(C) 6	(D) 8				
53.	Which of the following is a square of an even number?					
	(A) 144	(B) 169				
	(C) 441	(D) 625				
54.	Which of the following will have 4 at the units place?					
	(A) 14 ²	(B) 62 ²				
	(C) 27 ²	(D) 35 ²				
55.	Which of the following numbers is not a perfect cube?					
	(A) 216	(B) 567				
	(C) 125	(D) 343				

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56.	A perfect square can never have the following digi	it in its ones place.
	(A) 1	(B) 8
	(C) 0	(D) 6
57.	The solution of the equation $ax + b = 0$ is	
	(A) $x = \frac{a}{b}$	(B) x = -b
	(C) $x = \frac{-b}{a}$	(D) $x = \frac{b}{a}$
58.	If $\frac{5x}{3} - 4 = \frac{2x}{5}$, then the numerical value of $2x - 7$	7 is
	(A) $\frac{19}{13}$	(B) $-\frac{13}{19}$
	(C) 0	(D) $\frac{13}{19}$
59.	Which of the following can never be the measure of	of exterior angle of a regular polygon?
	(A) 22°	(B) 36°
	(C) 45°	(D) 30°
60.	The sum of adjacent angles of a parallelogram is	
	(A) 180°	(B) 120°
	(C) 360°	(D) 90°
61.	For which of the following, diagonals bisect each of	other?
	(A) Square	(B) Kite
	(C) Trapezium	(D) Quadrilateral
62.	Which of the following figures satisfy the following	property?
	Only one pair of sides are parallel.	
	Р	R S
	(A) P	(B) Q
	(C) R	(D) S
63.	The sum of all exterior angles of a triangle is	
	(A) 180°	(B) 360°
	(C) 540°	(D) 720°
64.	How many diagonals does a hexagon have?	
	(A) 9	(B) 8
	(C) 2	(D) 6
65.	3⁻² can be written as	
	(A) 3 ²	(B) $\frac{1}{3^2}$
	(C) $\frac{1}{3^{-2}}$	(D) $-\frac{2}{3}$

66.	If y be any non-zero integer, then y^0 is equal to				
	(A) 1	(B) 0			
	(C) – 1	(C) Not defined			
67.	$\left(\frac{-7}{5}\right)^{-1}$ is equal to				
	(A) $\frac{5}{7}$	(B) $-\frac{5}{7}$			
	(C) $\frac{7}{5}$	(D) $-\frac{7}{5}$			
68.	The compound interest on Rs 50,000 at 4% per annum	for 2 years compounded annually is			
	(A) Rs 4,000	(B) Rs 4,080			
	(C) Rs 4,280	(D) Rs 4,050			
69.	40% of [100 – 20% of 300] is equal to				
	(A) 20	(B) 16			
70.	(C) 140Latika bought a teapot for Rs 120 and a set of cups for	(D) 64 Rs 400. She sold teapet at a profit of 5% and curs at			
/0.	a loss of 5%. The amount received by her is	The soluties of a profit of 5 % and cups at			
	(A) Rs 494	(B) Rs 546			
	(C) Rs 506	(D) Rs 534			
	SECTION-E (MENT	AL ABILITY)			
71.	Which is the number that comes next in the sequence	: 0, 6, 24, 60, 120, 210 ?			
	(A) 240	(B) 290			
	(C) 336	(D) 504			
72.	Which is the number that comes next in the following sequence ?				
	4, 6, 12, 14, 28, 30,()				
	(A) 32	(B) 60			
	(C) 62	(D) 64			
73.	Three of the following four are alike in a certain way and so form a group. Which one does not belong to that group?				
	(A) Bud	(B) Branch			
	(C) Leaf	(D) Plant			
74	Find the odd-man out?				
	(A) PSRQ	(B) CGEF			
	(C) JMLK	(D) VYXW			
75.	Choose the word which is least like the other words in	the group			
	(A) Book	(B) Paper			
	(C) Pencil	(D) Pen			



83.	Insert the missing number in the given trend					
	3 25 2					
	4 64 4					
	3 ? 3					
	(A) 81	(B) 6				
	(C) 39	(D) 36				
Dire	ctions : (Q. 84)					
Dire		tion between the number within the bracket and those				
	outside the brackets are the same for both lines in ea					
	12 5 9					
84.						
04.	$13 \xrightarrow{27} 7 3 \xrightarrow{10} 7 7 \xrightarrow{?} 17$					
	(A) 25	(B) 20				
	(C) 27	(D) 28				
Dire	ctions : (Q. 85 to Q. 87)					
	-	s are missing which are given in that order as one of the				
	alternatives belows it. Choose the correct alternative.					
85.	A, B, D, G, ?					
	(A) M	(B) L				
00		(D) H				
86.	A, C, F, H, ?, M					
	(A) L	(B) K				
87.	(C) J AZ, BY, CX, ?	(D) L				
07.	(A) EF	(B) GH				
	(C) U	(D) DW				
Diro	ctions : (Q. 88 to Q. 89)					
Dire	In each of the following questions below, find out the o	correct answer from the given alternatives				
88.	In a certain code, GIGANTIC is written as GIGTANCI	-				
	(A) MIRLCAES	(B) MIRLACSE				
	(C) RIMCALSE	(D) RIMLCAES				
89.	If LINGER is 123456 and FORCE is 56789, then FIERCE is					
	(A) 345667	(B) 456678				
	(C) 345677	(D) 556789				
Dire	ctions : for (Q. 90)					
	Each of the following questions consists of five figure	es marked A, B, C, D and E called the problem figures				
		called the answer figures. Select a figure from amongst				
~~	the answer figures which will continue the same serie	es as established by the five problem figures.				
90.	Problem Figures					
	(2 8 8 8					
	A B C D E					
	Answer Figures					
	常张张张朱					
	1 2 3 4 5 (A) 1	(B) 2				
	(A) 1 (C) 3	(D) 4				

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RAISE (Reynott Academics and Intelligence Scholarship Examination) SAMPLE PAPER Class - 9th								
				ANSV	VER	KEY		
1.	(D)	19.	(C)	37.	(B)	55. (B) 73	3. (D)
2.	(D)	20.	(D)	38.	(D)	56. (B) 74	4. (B)
3.	(C)	21.	(D)	39.	(C)	57. (C) 75	5. (C)
4.	(B)	22.	(A)	40.	(C)	58. (1	B) 76	δ. (D)
5.	(A)	23.	(A)	41.	(A)	59. (A) 77	7. (В)
6.	(A)	24.	(B)	42.	(B)	60. (/	A) 78	3. (D)
7.	(D)	25.	(C)	43.	(A)	61. (A) 79	9. (B)
8.	(A)	26.	(A)	44.	(C)	62. (<i>i</i>	A) 80). (D)
9.	(D)	27.	(A)	45.	(D)	63. (B) 81	I. (D)
10.	(D)	28.	(A)	46.	(C)	64. (<i>i</i>	A) 82	2. (C)
11.	(A)	29.	(A)	47.	(A)	65. (B) 83	3. (D)
12.	(A)	30.	(A)	48.	(D)	66. (<i>i</i>	A) 84	4. (D)
13.	(D)	31.	(B)	49.	(D)	67. (B) 85	5. (C)
14.	(D)	32.	(A)	50.	(B)	68. (B) 86	6. (B)
15.	(C)	33.	(D)	51.	(B)	69. (B) 87	7. (D)
16.	(C)	34.	(B)	52.	(D)	70. (C) 88	3. (B)
17.	(B)	35.	(B)	53.	(A)	71. (C) 89	9. (B)
18.	(A)	36.	(D)	54.	(B)	72. (B) 90). (A)