

SAMPLE TEST PAPER •

Resonance National Entrance Test (ResoNET)

For Pre-foundation Career Care Programmes (PCCP)

FOR CLASS IX/ WISDOM/ SHARP



Practice, Persistence and Performance









VISION

Excellence in Career Education



MISSION

Practice, Persistence and Performance



VALUES

- Leadership with humane touch at various levels
- Integrity, transparency and openness in all our actions
- Innovation and pursuit of excellence in career education
- Address the needs of students through career oriented initiatives
- Strive to continuously improve our processes and quality of deliverables

R.K. Verma (RKV Sir)

B.Tech. (IIT-Madras, 1994)
Founder | Managing Director
Head (Academics) | Sr. Faculty (Physics)

About Resonance:

Place: Kota (Rajasthan) Established on: 11th April, 2001

S.No.	Academic Division	Classes	Target Examinations
1.	Pre-Engineering Division: JEE (Advanced)	IX, X, XI, XII & XII+	JEE (Advanced) JEE (Main) Olympiads
2.	Pre-Engineering Division: JEE (Main) IX, X, XI, XII & XI		JEE (Main) Other Engineering Entrance Exams
3.	. Pre-Medical Division IX, X, XI, XII &		NEET (UG) Olympiads
4.	4. Pre-foundation Career Care Programme Division (PCCP) V, VI, VII, VIII, IX		School & Board Exams NTSE Olympiads STSE
5.	Commerce & Law Programme Division (CLPD)	XI, XII & XII+	CA CS CLAT Board CUET (UG) UG & PG
6.	Pre-university & School Preparatory Division (PSPD)	XI, XII & XII+	Board Exams CUET-UG IPMAT JIPMAT BITSAT STSE UCEED College Entrance Exam UG & Scholarship Exams
7.	Resonance Multiple Examination Division (ResoMEx)	XII+ UG & PG	SSC BANKS RAILWAYS NDA Other Govt. & Private Recruitment Exams
8.	Distance Learning Programme Division (DLPD)	V to XII & XII+	JEE (Main) JEE (Advanced) NEET (UG) OLYMPIADS PRE-FOUNDATION OTHERS
9.	EdTech Division	V to XII & XII+	JEE (Main) JEE (Advanced) NEET (UG) PRE-FOUNDATION
10.	Resonance International Studies Division (Reso-ISD)	VI to XII & XII+	JEE (Main) JEE (Advanced) NEET (UG) OLYMPIADS PRE-FOUNDATION Upcoming: SAT IELTS GRE PTE





(For Class-VIII Passed Students)

CLASS-IX (FOR CLASS VIII TO IX/WISDOM/SHARP MOVING STUDENT)

TARGET: SCHOOL / OLYMPIAD/NTSE/IJSO

S.No.	Particulars	Pag Num		Total
		From	То	Pages
1	Guidelines and Instructions for Entrance Test	2	2	1
2	ResoNET Question Paper Structure & Syllabus	3	3	1
3	Sample Test Paper (STP): For Class VIII passed students (For the students applying for course Class VIII to IX moving Student).	4	10	7
4	Sample Test Paper: Answer Key (AK)	11	11	1
5	Sample ORS Answer Sheet for Resonance National Entrance Test (ResoNET)	12	12	1
	Total Pages			11

The sample test papers are only for reference and guidance. The sample papers given in the booklet are actually the papers of previous year's ResoNET conducted by Resonance for its various courses.

Note: Resonance reserves the right to change the pattern of Resonance National Entrance Test (ResoNET). Pervious year papers do not guarantee that the papers for this year selection test will be on the same pattern. However, the syllabus of the test paper will be equivalent to the syllabus of qualifying school/board examination and as given on page nos. 1 to 12.

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GUIDELINES AND INSTRUCTIONS FOR ENTRANCE TEST

FOR ONLINE EXAMINATION

In Online Examination system; Test will be conducted in fully computerized, user friendly mode with advanced security features making it fair, transparent and standardized.

Information & Instructions:

- 1. The examination does not require using any paper, pen, pencil and calculator.
- 2. Every student will take the examination on a Laptop/Desktop/Smart Phone.
- 3. If you are using your personal laptop/Desktop, please make sure that you have installed the necessary software and programs & having proper internet connection before the examination day. It is important that your laptop/desktop/Smartphone-Mobile fulfils the system requirements of the programme.
- **4.** You must bring your own power supply for use during the examination.
- **5.** If failure to comply with these recommendations results in technical problems that cause a delay in your examination, you cannot expect to be granted extended time.
- **6.** Kindly remember your Resonance Application Form No. as a Roll No.
- 7. You are not permitted to leave the Venue/any movement from Laptop/Desktop/Mobile screen during examination.
- **8.** The students just need to click on the Right Choice / Correct option from the multiple choices /options given with each question. For Multiple Choice Questions, each question has four options, and the candidate has to click the appropriate option.

FOR OFFLINE EXAMINATION

- 1. This booklet is your Question Paper.
- 2. The Question Paper Code is printed on the top right corner of this sheet.
- **3.** Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form are not allowed to be used.
- 4. Write your Name & Application Form Number in the space provided in the bottom of this booklet.
- 5. Before answering the paper, fill up the required details in the blank space provided in the Objective Response Sheet.
- 6. Do not forget to mention your paper code and Application Form Number neatly and clearly in the blank space provided in the Objective Response Sheet (ORS) / Answer Sheet.
- 7. 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.
- 8. No query related to question paper of any type is to be put to the invigilator.



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RESONET QUESTION PAPER STRUCTURE

For Class VIII to IX Moving Student									
					Marking Scheme				
S.No.	Part	Subject	Type of Question	No. of Ques.	Full Marks per Qs.	Negative Marking	Total		
1 to 25	ı	Mathematics	Single Choice Questions (Only One Correct Option) (MCQ)	25	3	0	75		
26 to 35	II	Physics	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30		
36 to 45	III	Chemistry	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30		
46 to 55	IV	Biology	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30		
56 to 70	V	Mental Ability	bility Single Choice Questions (Only One Correct Option) (MCQ) 15 3 0		45				
			Total	70			210		

RESONET SYLLABUS

	FOR	CLASS VIII TO IX MOVING STUDENT
SUBJECT	SYLLABUS FROM CLASS	TOPIC
MATHEMATICS	VIII	Squares & Square Roots, Cubes & Cube Roots, Linear equation in one variable, Quadrilaterals, Playing with numbers, Algebraic expressions, Algebraic identities, Exponents and powers, Percentage and its applications, Compound interest, Direct n inverse variations, Visualising solid shapes, Mensuration, Introduction to graph, Statistics, Probability.
PHYSICS	VIII	Force, Pressure, Friction, Sound wave, Electricity, Light, Earthquakes Rain, Thunder and Lightning, Night Sky.
CHEMISTRY	VIII	Synthetic fibres and plastics, Metals and non-metals, Coal & Petroleum, Combustion and Flame.
BIOLOGY	VIII	Crop production & management, Micro-Organism friend & foe, Conservation of plants & animals, Cellular level of organization Reproduction in Animal, Pollution of Air & Water, Reaching the Age of Adolescence.
MENTAL ABILITY	VIII	Number Series, Alphabet Series, Letter Repeating Series, Missing term in figure, Mathematical Operations, Coding-Decoding, Direction Sense, Ranking & Ordering-Test, Blood Relation, Sitting Arrangement, Puzzle Test, Venn Diagram, Dice Test, Analogy & Classification, Non Verbal Series, Non Verbal Analogy, Classifiction.



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(For Class-IX Passed Students)

CLASS-IX (FOR CLASS VIII TO IX/WISDOM/SHARP MOVING STUDENT)

TARGET: SCHOOL / OLYMPIAD/NTSE/IJSO

For Class IX to X Moving Student								
				No.	Marking Scheme			
S.No.	Part	Subject	Type of Question of Ques. Pull Marks Negative per Qs. Marking		· ·	Total		
1 to 25	ı	Mathematics	Single Choice Questions (Only One Correct Option) (MCQ)	25	3	0	75	
26 to 35	II	Physics	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30	
36 to 45	Ш	Chemistry	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30	
46 to 55	IV	Biology	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30	
56 to 70	V	Mental Ability	Single Choice Questions (Only One Correct Option) (MCQ)	15 3 0		45		
		т	otal	70			210	

PART-I: MATHEMATICS

This section contains 25 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

1.	(A) 109	allest 3-digit number is (B) 110	(C) 90	(D) 120
2.	•	by itself three times, the (B) cube number.		(D) even number
3.	Solve: $5x - 7 = 2x + 8$ (A) 1	(B) 3	(C) 5	(D) 7
4.		S, if R = 105°, measures (B) 90° and 90°.		(D) 120° and 60°.
5.	The usual form of 1000 (A) 3691.	× 3 + 100 × 6 + 10 × 0 + (B) 3619.	1 x 9 is (C) 3609.	(D) 3069
6.	Add ab - bc, bc - ca, ca (A) pq - rp.		(C) 0.	(D) 1.
7.		(a -b) from 2ab (a+b) giv (B) a²b + 5ab².		(D) ab ² +5.



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8. Which of the following statement is correct?

(A) $a^0 = 0$

(B)
$$a^3 + a^2 = a^5$$

(C) $(a^7)^3 = a^{21}$

(D)
$$a^1 = 1$$

9. Count of 90 parent's surveyed only 20% parents helped their wards in their home work; the number of parents who helped their wards is

(A) 18.

(B) 20.

(C) 22.

(D) 30.

10. The compound interest compounded half yearly on Rs 1520 for 1.5 years at the rate of 8% per annum is (in Rs.)

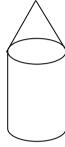
(A) 189.80.

(B) 180.

(C) 170.

(D) 60.

- 11. If 36 men can do a piece of work in 25 days, then the number of days taken by 15 men will be (A) 50. (B) 56. (C) 60. (D) 72.
- **12.** In this figure a cone is surmounted on a



- (A) cylinder.
- (B) cone.
- (C) hemisphere.
- (D) rectangle.
- The area of four walls of a room whose length is 12 m, width is 8 m and height is 10 m is (A) 100 m^2 . (B) 200 m^2 . (C) 400 m^2 . (D) 600 m^2
- **14.** From the origin, move 2 units to the left on x-axis and then move 4 units up. The coordinates of the point are
 - (A) (2, 4).
- (B) (-2, 4).
- (C) (4, 2).
- (D) (-4, 2).

15. A die is rolled 100 times with the following results.

Outcome	Frequenc
1	22
2 3	15
	9
4	16
5	18
6	20
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

The probability of getting 2 is

- (A) 2/15.
- (B) 1/50.
- (C) 2/20.
- (D) 3/20.

- **16.** Data available in an unorganized form is called
 - (A) a raw data.
- (B) a tally.
- (C) a frequency.
- (D) an array

17. If $\sqrt{1 + \frac{27}{169}} = 1 + \frac{x}{13}$, then x =

(A) 1

(B) 14

(C) Cannot be determined

(D) None

18. Cube root of 658503 is

(A) 97.

(B) 87.

(C) 83.

(D) 77.

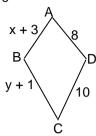


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- 19. The perimeter of a rectangular park is 186 metres. If the length of the park is twice its breadth, then its length and breadth will be
 - (A) 31 metres and 62 metres.
- (B) 62 metres and 31 metres.
- (C) 62 metres and 124 metres.
- (D) 124 metres and 62 metres
- 20. The value of the variable x and y in the given kite are respectively



- (A) 5 and 9.
- (B) 9 and 5.
- (C) 5 and 7.
- (D) 7 and 5.
- 21. In a two-digit number, the digit in the unit place is four times the digit in the tens place and the sum of the digits is equal to 10, then the number is
 - (A) 26.
- (B) 28.
- (C) 40.
- (D) 82.

- 22. Expressions that contain only one term is called
 - (A) an identity.
- (B) a monomial.
- (C) a like term.
- (D) an unlike term
- (A) 10004. (B) 10006.

23.

- Using the identity $(x + a)(x + b) = x^2 + a(x + b) + ab$, the product 103×98 is (C) 10094.
 - (D) 10100.

- The value of $\left[1^{-2} + 2^{-2} + 3^{-2}\right] \times 6^2$ is 24.
 - (A) 49
- (C) 45
- (D) 51
- A machinery worth Rs 10,000 depreciated by 5%. Its value after one year is 25.
 - (A) Rs 9000.
- (B) Rs 9500.
- (C) Rs 10,000.
- (D) Rs 10,500

PART-II: PHYSICS

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which ONLY ONE is correct.

- 26. The strength of force is expressed by?
 - (A) Magnitude
- (B) Mass
- (C) Weight
- (D) Longitudinal force

- 27. Pascal measures the
 - (A) pressure on a body

(B) area of a body

(C) force on a body

- (D) volume of a body
- 28. If the force is applied along the downward direction, the friction acts
 - (A) downwards
- (B) upwards
- (C) right hand side
- (D) sideways

- 29. The vibrating part of the flute is the
 - (A) water column.

(B) stretched string.

(C) stretched membrane.

(D) air column.



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SAMPLE TEST PAPER (STP) **CLASS: VIII TO IX MOVING** A body has 20 electrons and 30 protons. What charge will the body possess? (A) Positive Charge. (B) Negative Charge. (C) Neutral. A real image: (A) Cannot be captured on a screen. (B) Can be captured on a screen. (C) Can be captured only on a celluloid screen.

- 32. Which of the following scales are not linear in nature?
 - (i) Decibel.
- (ii) Richter.
- (iii) Meter.

(A) (i) only.

30.

31.

- (B) (iii) only.
- (C) (ii) only.
- (D) (i) and (ii).
- 33. The path of conductive air which extends from the thunder cloud:
 - (A) Electric discharge (B) Step leader

(D) None of the above.

- (C) Thunderstrom
- (D) None
- 34. Time taken by Neptune to complete one revolution around the sun:
 - (A) 100 years.
- (B) 120 years.
- (C) 165 years.
- (D) 200 years.

- 35. Which of the following is a semi conductor:
 - (A) Vacuum.
- (B) Germanium.
- (C) Mica.
- (D) Copper.

PART-III: CHEMISTRY

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which ONLY ONE is correct.

- 36. Polyester is made of repeating units of chemical called as (B) ester. (C) acid. (D) alcohol. (A) ether.
- 37. Out of them which is most reactive metal:
 - (A) iron.
- (B) zinc.
- (C) copper.
- (D) silver.

- 38. The one that is stored in water is
 - (A) iron.
- (B) zinc.
- (C) copper.
- (D) phosphorus.

- 39. Sodium is kept in:
 - (A) Acid
- (B) Base
- (C) Water
- (D) Kerosene
- 40. The white marble of Taj Mahal is changed to yellow because of
 - (A) global warming.
- (B) deforestation.
- (C) fog.
- (D) acid rain.

- 41. Unburnt carbon particles in a fuel may cause
 - (A) typhoid.
- (B) cholera.
- (C) asthma.
- (D) malaria.

- 42. The main constituent of coal is
 - (A) nickel.
- (B) carbon.
- (C) oxygen.
- (D) iron.

- 43. Ointments are prepared from
 - (A) lubricating oil.
- (B) coke.
- (C) bitumen.
- (D) paraffin wax.
- 44. A species having a negative charge on it, is known as
 - (A) stable atom.
- (B) cation.
- (C) anion.
- (D) valency.
- The fuel earlier used in railway engines to produce steam was 45.
- (A) coal.
- (B) coke.
- (C) coal gas.
- (D) coal tar.



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PART-IV: BIOLOGY

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

46.	Growing two or more of (A) Crop rotation	crops in definite row pat (B) Intercropping	tern is known as – (C) Mixed cropping	(D) Organic Cropping
47.	Which micro-organism (A) Plasmodium	is the cause of malaria (B) Amoeba	ı – (C) Salmonella typhi	(D) None of these
48.	Flora consists – (A) Plant species	(B) Animal species	(C) Microorganism	(D) None of the above
49.	Single membrane is properties (A) Mitochondria	resent in – (B) Chloroplast	(C) Nucleus	(D) Lysosome
50.	In most mammals , tes (A) Sex differentiation (C) Independent functi	stes are located in scrot	al sacs for – (B) Sperm developme (D) More space to viso	
51.	Pick out the pollutant (A) Carbon monoxide	(B) Oxygen	(C) Nitrogen	(D) Hydrogen
52.	The stage of sexual m (A) Menarche	aturity is called as – (B) Puberty	(C) Menopause	(D) Gestation
53.	In asexual reproductio (A) Two parents	n involves – (B) Four parents	(C) One parent	(D) No parents
54.	Biotic component of bi	osphere is not constitut (B) Consumers	ed by – (C) Decomposer	(D) Air

This section contains 15 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

PART-V: MENTAL ABILITY

Structures present in a cell which is responsible for determination of the sex of a baby is -

(C) Nucleus

Direction: (56 to 57) Find the missing term.

(A) Cytoplasm

55.

56. 11, 15, 21, 29, ? (A) 40 (B) 41 (C) 37 (D) 39

(B) Cell membrane

57. ATL, BUM, CVN, DWO,?
(A) EZP (B) EYQ (C) EFP (D) EXP

Directions : (58) Which sequence of letters when placed at the blanks one after the other will complete the given letter series?

58. J_HL_K_IH_LKJI_LLK (A) H I L J L (B) I L J L H (C) L J L H I (D) J L H I L



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(D) Chromosome

Direction: (59) Find the missing term	rection:	(59) Find the missi	าg term
---------------------------------------	----------	---------------------	---------

าฯ
JJ.

N	0	Р
S	R	?
T	U	V

(A) T

(B) K

(C) F

(D) Q

60. If '+' means 'multiplied by', '-' means 'divided by', 'x' means 'plus' and ' \div ' means 'minus' then $(18 + 10 \times 20) - 8 \div 6 = ?$

(A) 92

(B) 35

(C) 19

(D) 26

61. If A means E, B means F, C means G and H means L, then how will you code `GO AHEAD'?

(A) KS FLIFH

(B) HP BIFBE

(C) KS GLIGH

(D) KS ELIEH

62. A tourist drives 10 km towards east and turns to the right hand and drives 3 km. Then he drives towards west (turning to his right) 3 km. He then turns to his left and drives 2 km. Finally he turns to his right and travels 7 km. How far is he from his starting point and in which direction would he be?

(A) 10 km, East

(B) 5 km, South

(C) 8 km, West

(D) 5 km, West

Directions: (63) These questions are based on the following arrangement of symbols, letters and numbers.

$$\uparrow$$
 9 B Q = \$ 2 5 R J ∂ L 3 @ Y M E 6 8 \spadesuit ÷ D F 4 β H 7 ©

63. How many such numbers are there in the arrangement each of which is immediately preceded by a symbol but not immediately followed by a letter?

(A) Nil

(B) One

(C) Two

(D) Three

Pointing to a man in a photograph, a woman says. "He is the only son of the only daughter-in-law of my only son's father." How is the man related to the woman?

(A) Son

(B) Father

(C) Son-in-law

(D) Grandson

65. Five girls are sitting in a row facing south. Priya is not adjacent to Shalini or Niti. Priti is not adjacent to Shalini and is at extreme right end. Priya is adjacent to Mahi. Mahi is at the middle in the row. Then, Priti is adjacent to whom out of the following?

(A) Priya

(B) Shalini

(C) Niti

(D) Mahi

Direction: (66) Read the information given below and answer the questions that follow:

(i) In a family of six persons A, B, C, D, E and F, there are two married couples.

(ii) D is grandmother of A and mother of B.

(iii) C is wife of B and mother of F.

(iv) F is the grand daughter of E.

66. Who among the following is one of the couples?

(A) CD

(B) DE

(C) EB

(D) Cannot be determined

67. Terrorists who are not hard-core criminals are represented by.

() Criminals

Hard-core criminals



(A) 2

(B) 3

(C)4

(D)1



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68. If you cut out and fold the pattern shown below to make a cube, which letter will be on the face of the cube opposite the face labeled 3?



(A) 2

(B) 1

C) 5

(D) 4

Directions : (69) In each of the following questions three out of four alternatives contain alphabet / word / number /pairs of the same property. Find the one that does not belong to the group.

69. (A) 2442

(B) 3773

(C) 4545

(D) 6776

Directions : (70) Out of the four figures (A), (B), (C) and (D), given in each problem, three are similar in a certain way. However, one figure is not like the other three. Choose the figure which is different from the rest.

70.



(B)





Space for Rough Work / (कच्चे कार्य के लिए स्थान)

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FOR CLASS-VIII TO IX MOVING | SAMPLE TEST PAPER (STP)

	ANSWER KEY (AK)										
	Q.No.	1	2	3	4	5	6	7	8	9	10
PART-I:	Ans.	В	В	С	С	С	С	Α	С	Α	Α
	Q.No.	11	12	13	14	15	16	17	18	19	20
MATHEMATICS	Ans.	С	Α	С	В	D	А	Α	В	В	А
	Q.No.	21	22	23	24	25					
	Ans.	В	В	С	А	В					
PART-II:	Q.No.	26	27	28	29	30	31	32	33	34	35
PHYSICS	Ans.	А	А	В	D	А	В	D	В	С	В
PART-III: CHEMISTRY	Q.No.	36	37	38	39	40	41	42	43	44	45
	Ans.	В	В	D	D	D	С	В	D	С	А
PART-IV:	Q.No.	46	47	48	49	50	51	52	53	54	55
BIOLOGY	Ans.	В	Α	А	D	В	А	В	С	D	D
	Q.No.	56	57	58	59	60	61	62	63	64	65
PART-IV: MENTAL	Ans.	D	D	В	D	С	D	В	В	D	А
ABILITY	Q.No.	66	67	68	69	70					
	Ans.	В	D	В	С	D					

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Resonance®			PCCP ResoNET-2024			Objective Response Sheet (ORS)
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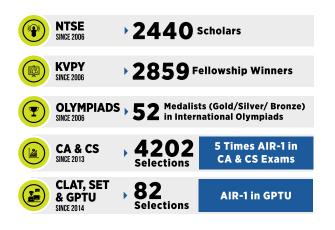
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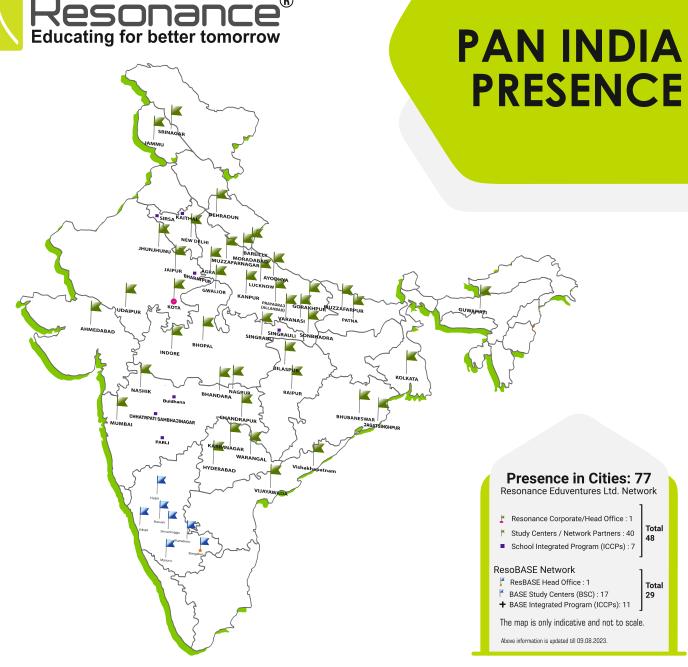




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