

# **SAMPLE TEST PAPER** •

**Resonance National Entrance Test (ResoNET)** 

**For Pre-foundation Career Care Programmes (PCCP)** 

FOR CLASS X/ WINNER/ SMART



**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: 11<sup>th</sup> 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 & XII+	JEE (Main)   Other Engineering Entrance Exams
3.	Pre-Medical Division	IX, X, XI, XII & XII+	NEET (UG)   Olympiads
4.	Pre-foundation Career Care Programme Division (PCCP)	V, VI, VII, VIII, IX & X	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-IX Passed Students)

**CLASS-X** (FOR CLASS IX TO X/WINNER/SMART MOVING STUDENT)

TARGET: SCHOOL / OLYMPIAD/NTSE

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 IX passed students (For the students applying for course Class IX to X 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.

© Copyright reserved.

All rights reserved. Any photocopying, publishing or reproduction of full or any part of this study material is strictly prohibited. This material belongs to enrolled student of RESONANCE only. Any sale/resale of this material is punishable under law, subject to Kota Jurisdiction only.



Reg. & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in

Toll Free: 1800 258 5555 | CIN: U80302RJ2007PLC024029

STPPH224\_CLASS-X | PAGE # 1

### **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:

- The examination does not require using any paper, pen, pencil and calculator. 1.
- Every student will take the examination on a Laptop/Desktop/Smart Phone. 2.
- 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.
- You must bring your own power supply for use during the examination. 4.
- 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

- This booklet is your Question Paper. 1.
- 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.
- Write your Name & Application Form Number in the space provided in the bottom of this booklet. 4.
- 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.
- No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in 7. the question paper.
- 8. No query related to question paper of any type is to be put to the invigilator.



Reg. & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in

## **RESONET QUESTION PAPER STRUCTURE**

For Class IX to X 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	П	Physics	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30		
36 to 45	≡	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		
			Total	70			210		

## **RESONET SYLLABUS**

	FOR CLASS IX TO X MOVING STUDENT								
SUBJECT	SYLLABUS FROM CLASS	TOPIC							
MATHEMATICS	IX	Number System, Polynomials, Coordinate Geometry, Lines and Angles, Congruent Triangles, Heron's Formula, Linear Equation in two variables, Quadrilaterals, Area of Parallelograms, Triangles, Circles, Surface Area and Volume, Statistics, Probability.							
PHYSICS IX		Motion, Force and Newton's Laws, Gravitation, Fluid, Work, Energy and Power, Wave Motion And Sound.							
CHEMISTRY IX		Matter in our Surroundings, Is Matter Around us Pure, Atoms and Molecules, Structure of Atom.							
BIOLOGY		Fundamental unit of life, Tissue, Improvement in food resources, Diversity of living organism, Why do we fall ill, Naturalresources.							
MENTAL ABILITY	IX	Number-Series, Alphabet-Series, Missing Term in Figures, Coding-Decoding, Direction, Sense Test, Seating Arrangement, Puzzle Test, Syllogism, Day, Date and Time, Dice Test, Cube Test, Non-Verbal Series, Non-Verbal Analogy, Non-Verbal Classification.							



Reg. & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in





(For Class-IX Passed Students)

**CLASS-X** (FOR CLASS IX TO X/WINNER/SMART MOVING STUDENT)

**TARGET: SCHOOL / OLYMPIAD** 

For Class IX to X 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	Ш	Chemistry	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30		
46 to 55	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		
		To	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. There are four prime numbers written in ascending order. The product of the first three is 385 and that of the last three is 1001. The last number is :
  - (A) 11
- (B) 13
- (C) 17
- (D) 19

2. Which of the following is a polynomial:-

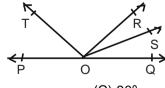
(A) 
$$x^2 + \sqrt{2}x + \sqrt{3}$$

(B) 
$$x^2 + \sqrt{2x} + \sqrt{3}$$

(C) 
$$x^2 + \frac{2}{x} + \sqrt{3}$$

(A) 
$$x^2 + \sqrt{2}x + \sqrt{3}$$
 (B)  $x^2 + \sqrt{2x} + \sqrt{3}$  (C)  $x^2 + \frac{2}{x} + \sqrt{3}$  (D)  $x^{3/2} + \sqrt{2}x + \sqrt{3}$ 

If OT and OS are the bisectors of ∠POR and ∠QOR, then ∠TOS is equal to : 3.



- (A)  $60^{\circ}$
- (B) 85°
- $(C) 90^{\circ}$
- (D) 100°.



Reg. & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

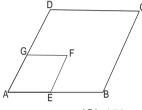
Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in

- **4.** If D is any point on the side BC of a  $\triangle$ ABC, then :
  - (A) AB + BC + CA > 2AD

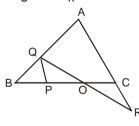
(B) AB + BC + CA < 2AD

(C) AB + BC + CA > 3 AD

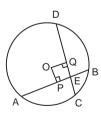
- (D) None
- **5.** The distance of the point (12, -5) from origin is :
  - (A)7
- (B) 12
- (C) 17
- (D)13
- **6.** Area of triangle ABC whose sides are 24 m. 40 m. and 32 m. is:
  - (A) 96 m<sup>2</sup>
- (B) 384 m<sup>2</sup>
- (C) 43 m<sup>2</sup>
- (D) 192 m<sup>2</sup>
- 7. The values of a for which the lines x = 1, y = 2 and  $a^2x + 2y 20 = 0$  are concurrent are
  - (A) 1
- (B)  $\pm 4$
- (C) -1
- (D) -2
- 8. In the adjoining figure, ABCD and AEFG are each a parallelogram. If  $\angle$  C = 55°, what is the measure of  $\angle$  F?



- (A) 60°
- (B) 55°
- (C) 45°
- (D) 35°
- **9.** Find the area of the figure formed by joining the mid-points of the adjacent sides of a rhombus with diagonals 12 cm and 16 cm.
  - (A) 32 cm<sup>2</sup>
- (B) 42 cm<sup>2</sup>
- (C) 48 cm<sup>2</sup>
- (D) 44 cm<sup>2</sup>
- 10. In figure,  $\triangle$ ABC is an equilateral triangle PQ || AC and AC is produced to R such that CR = PQ.



- (A) PO > OC
- (B) PO = OC
- (C)  $\angle$ POQ =  $\angle$ CRO
- (D) AQ=AR
- 11. In the diagram O is the centre of a circle. AE + EB = CE + ED. OP  $\perp$  AB and OQ  $\perp$  CD then true relation between OP and OQ is -



- (A) OP > OQ
- (B) OP < OQ
- (C) OP =  $\frac{1}{2}$  OQ
- (D) OP = OQ



Reg. & Corp.Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in

	// SAM	PLE TEST PAPER (	STP)   CLASS: IX	TO X MOVING			
12.				36cm. From each one of corners, sheet. Find the volume of the box. (D) 5220 cm <sup>3</sup>			
13.	For the scores 8, 6 (A) 6.85	, 10, 12, 1, 5, 6 and 6 th (B) 6.75	ne Arithmetic mean is (C) 6.95	(D) 7			
14.	Three unbiased co	ins are tossed, What is	probability of getting ex	actly two heads?			
	(A) $\frac{1}{3}$	(B) $\frac{3}{4}$	(C) $\frac{2}{3}$	(D) $\frac{3}{8}$			
15.	If $m^2 - n^2 = 7$ , when (A) 1	re m, n∈Z, then number (B) 2	r of ordered pairs (m, n) (C) 3	is (D) 4			
16.	If $abx^2 = (a - b)^2 (x$	+ 1), then the value of	1+ $\frac{4}{x}$ + $\frac{4}{x^2}$ is:				
	(A) $\left(\frac{a-b}{a+b}\right)^2$	(B) $\left(\frac{a+b}{a-b}\right)^2$	(C) $\left(\frac{a}{a+b}\right)^2$	(D) $\left(\frac{b}{a+b}\right)^2$			
17.		o parallel lines. PQ cuts 85°, then ∠CFQ will be : (B) 70°		respectively. EL is the bisector of (D) 130°			
18.	If the three altitude (A) isosceles	s of a ∆ are equal then t (B) equilateral	triangle is : (C) right angled	(D) none			
19.	The points (-5,2) a (A) same quadrant (C) II and IV quadr			(B) II and III quadrants respectively (D) IV and III quadrants respectively			
20.		of a trapezium are 60 cn rea of trapezium is - (B) 204 cm <sup>2</sup>	n and 77 cm and non-pa (C) 1440 cm <sup>2</sup>	arallel sides are 26 cm and 26 cm. (D) 1600 cm <sup>2</sup>			
21.	· /	y = 6 does not passes t (B) II Quadrant	,	(D) 1600 cm <sup>2</sup>			
22.	E is on BC such th (i) E is the midpoin	at the segment DE is pa	arallel to AB. Consider t	ngle at C and let D be the midpoint of side AC. Suppose allel to AB. Consider the following three statements.  (ii) The length of DE is half the length of AB			
	(A) only (i) is true (C) only (i) and (iii)	are true	(B) only (i) and (ii) and (ii) (D) all three are true				
23.	ABC and BDE are	two equilateral triangle	es such that D is the m	id-point of BC. If ar (BDE) = k ar			

(ABC), then k =

(B) 1/2

(A) 1

(D) 1/3

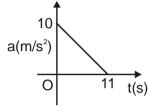
(C) 1/4

- **24.** The side BC of the triangle ABC is produced to a point D. If the bisectors of  $\angle$ ABC and  $\angle$ ACD meet at point P, then :
  - (A)  $\angle A = \angle P$
- (B)  $\angle A = \frac{1}{2} \angle P$
- (C)  $\angle A = 3 \angle P$
- (D) ∠A = 2∠P
- 25. The probability of three coins falling all heads up when tossed simultaneously is :
  - (A)  $\frac{1}{2}$
- (B)  $\frac{1}{6}$
- (C)  $\frac{1}{8}$
- (D)  $\frac{1}{4}$

### **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. A body starts from rest at time t = 0, the acceleration time graph is shown in figure. The maximum velocity attained by the body will be:
  - (A)110 m/s
  - (B) 55 m/s
  - (C) 650 m/s
  - (D) 550 m/s



- **27.** A body of mass M strikes against wall with a velocity v and rebounds with the same velocity. Its change in momentum is :
  - (A) zero
- (B) Mv
- (C) -Mv
- (D) -2 Mv
- **28.** If two bodies of mass M<sub>1</sub> and M<sub>2</sub> are placed a distance r apart they have a force of gravitation F between them. If both of the masses are reduced to half then force of gravitation would be :
  - (A)  $\frac{F}{2}$
- (B) 2 F
- (C)  $\frac{F}{4}$
- (D) F
- 29. The balloon stops rising up beyond a particular height when the density of gas inside the balloon :
  - (A) exceeds the density of air outside
- (B) equals the density of air
- (C) becomes less than the density of air
- (D) none of the above
- **30.** To lift a 5 kg mass to a certain height, amount of energy spent is 245 J. The mass was raised to a height of :
  - (A) 15 m
- (B) 10 m
- (C) 7.5 m
- (D) 5 m

- **31.** Ultrasonic frequency range is:
  - (A) Below 20 Hz
- (B) 20 Hz to 20 kHz
- (C) Above 20 kHz
- (D) No limit
- **32.** A body covers half the distance with a speed of 20m/s and the other half with 30m/s. The average speed of the body during the whole journey is :
  - (A) Zero
- (B) 24m/s
- (C) 25 m/s
- (D) None of the above
- **33.** Two thin circular discs of radii 3 cm and 4 cm respectively are placed separately at the bottom of a vessel containing water. The ratio of thrusts acting on them will be :
  - (A) 3:4
- (B) 4:3
- (C) 5: 2
- (D) 9:16



Reg. & Corp.Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in

### SAMPLE TEST PAPER (STP) | CLASS: IX TO X MOVING

		SAIVIFLE	. ILJI	PAPER (31F	)   CLASS. IX TO	/ X IVIOVIIVO
34.	When time (A) Power in				of work increases, ther (C) energy increases	
35.				urn from a sub from the sonai		sound in water is 1500 ms <sup>-1</sup> ,
	(A) 1500 m		(B) 300	0 m	(C) 3300 m	(D) 3600 m
				PART-III : C	HEMISTRY	
This se	ection contair which <b>ONL</b> `			ch question ha	s 4 choices (A), (B), (C)	) and (D) for its answer, out of
36.	The following (A) Water	-	s definite (B) Ice	e shape and vo	olume is (C) Oxygen	(D) Steam
37.	Which of the (A) Brass			ample of homo ldy water	geneous mixture? (C) Soil	(D) All
38.		lar mass of		gen molecule (	=	
	(A) 16u	_	(B) 32u		(C) 34u	(D) 33u
39.	(A) Their ou (B) it is not (C) They ha	itermost she possible to ave unstable	ells are r remove e configu			
40.	Which of the (A) Larva of (C) Wood	e following i f volcanic er		atter?	(B) pain (D) None of these	
41.	Which one (A) Marble	of the follow	ring is no (B) Ozo	ot a compound ne	? (C) Alumina	(D) Quicklime
42.		multiple prop	oortion.		ated nor destroyed in a (B) law of conservation (D) Law of reciprocal p	n of mass
43.	In an atom, (A) 2 electro		occupy (B) 8 ele	maximum of- ectrons	(C) 18 electrons	(D) 32 electrons
44.		a of the chlo	ride of a	metal is MCl <sub>3</sub> .	The formula of its sulph	nate is
	(A) MSO <sub>4</sub>		(B) M <sub>2</sub> (	4.0	(C) M3 (SO4)2	(D) $M_4$ (SO <sub>4</sub> ) <sub>3</sub>
45.	The numbe (A) 13	r of electron	is in Al <sup>+3</sup> (B) 12	is -	(C) 11	(D) 10
				PART-IV:	BIOLOGY	
	ection contair		ons. Ea	ch question ha	s 4 choices (A), (B), (C)	) and (D) for its answer, out of
46.	Organelle w (A) ribosom		l membr (B) golg		(C) mitochondria	(D) chloroplast
47.	Which of the (A) sieve tu			ents of phloem panion cells	is non-living (C) phloem fibres	(D) phloem parenchyma
48.	Vermicomp (A) leech	osting invol	ves – (B) cocl	roach	(C) earthworm	(D) roundworm
49.	Non floweri (A) cryptpga			o nerogamae	(C) dicot	(D) monocot
<b>50</b> .	Kala-azar (l		is cause	ed by		



(A) Photochemical

(A) Protozoan

51.

Reg. & Corp.Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in

(C) helminth

(C) Acid rain

Toll Free: 1800 258 5555 | <u>CIN:</u> U80302RJ2007PLC024029

(B) fungus

Corrosion of statues and monuments occurs due to -

(B) Co

(D) bacterium

(D) Methane

#### **SAMPLE TEST PAPER (STP) CLASS: IX TO X MOVING** Protein containing plastid is 52. (A) Elaioplast (B) Amyloplast (C) Aleuroplast (D) Rhodoplast A permanent plant tissue made up of living cells having thickening at the corners is 53. (C) Sclerenchyma (A) Parenchyma (B) Collenchyma (D) Phloem 54. Lichens indicate pollution by (C) NO<sub>2</sub> (D) CO (A) O<sub>3</sub> (B) SO<sub>2</sub> 55. Choanocytes are unique to -(A) Protozoa (B) Annelida (C) Porifera (D) Echinodermatas **PART-V: MENTAL ABILITY** Directions: (56) Which sequence of letters when placed at the blanks one after the other will complete the given letter series? 56. abc \_ d \_ bc \_ d \_ b \_ cda (B) cdabc (D) dccbd (A) bacdc (C) dacab If GOOD is written HQRH, how will you write DREAM? 57. (A) ESPBN (B) ETHER (C) ETHPQ (D) ESHDR **Directions: (58)** Find the missing numbers. 58. 3, 1, 4, 5, 9, 14, 23, ? (A) 32 (C) 41 (D) 28 (B) 37 59. Correct the following equations by interchanging two signs. $16 - 21 \div 7 \times 6 + 3 = 31$ $(A) - and \div$ $(B) + and \times$ (C) ÷ and + (D) $\div$ and $\times$ 60. At my house I am facing West, then I turn left and go 10 m, then I turn 90° anti-clockwise and go 5 m, and then I go 5 m to the South and from there 5 m to the West. In which direction am I from my house? (A) East (B) West (C) North (D) South Directions: (61) Read the following information and answer the questions given below it. Five girls are standing in a circle facing the centre. Suman is between Lata and Asha. Mamta is to the right of Lata. 61. Who is to the left of Asha if Rajani is the fifth girl? (A) Mamta (B) Suman (D) Rajani (C) Lata Directions (62): Read the following information carefully and answer the questions that follows. (i) Five friends P, Q, R, S and T travelled to five different cities of Chennai, Kolkata, Delhi, Bangalore and Hederabad by different modes of transport of Bus, Train, Aeroplane, Car and Boat from Mumbai. (ii) The person who travelled to Delhi did not travel by boat. (iii) R went to Bangalore by Car and Q went to Kolkata by Aeroplane. (iv) S travelled by Boat whereas T travelled by Train. (v) Mumbai is not connected by bus to Delhi and Chennai. 62.

Which of the following combinations of person and mode is not correct?

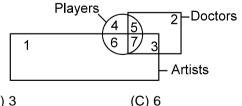
(A) P - Bus

(B) Q - Aeroplane

(C) R - Car

(D) T - Aeroplane

Which numbered space in the figure, represents doctors who are players as well as artists? 63.



(B) 3 (A) 2(D) 7

Directions: (64) In each question, statements are followed by the conclusions. You have to take the given statements to be true even if they appear to be at variance with commonly known facts, and then decide which of the conclusions logically follow(s) from the given statements. For each question, mark out an appropriate answer choice that you think is correct.



Reg. & Corp.Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in

### SAMPLE TEST PAPER (STP) | CLASS: IX TO X MOVING

64. Statements: 1. All lamps are books.

2. No book is coloured.

Conclusions: I. Some lamps are coloured.

II. No lamp is coloured.

(A) Only conclusion I follows.

(B) Only conclusion II follows

(C) Both I and II follow.

(D) Neither I nor II follows.

**65.** Find the day of the week on 15 August, 1947.

(A) Tuesday

(B) Friday

(C) Wednesday

(D) Thursday

**66.** Three positions of the same dice are given below. Observe the figures carefully and tell which number will come in place of '?'

6 3 (i)

3 5 (ii)



(A) 1

(B) 6

(C) 3

(D) 5

**Directions : (67)** A cube is painted red on two adjacent surfaces and black on the surfaces opposite to red surfaces and green on the remaining faces. Now the cube is cut into sixty four smaller cubes of equal size.

67. How many smaller cubes have three surfaces painted?

(A) 4

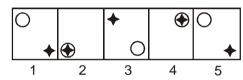
(B) 8

(C) 16

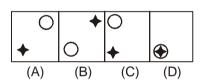
(D) 24

**Directions : (68)** Each of the following questions consists of five figures marked 1, 2, 3, 4 and 5. These figures form a series. Find out the one from the answer figures that will continue the series.

#### 68. Problem Figures



#### **Answer Figures**



**Directions: (69)** In each of the following questions, there is a certain relation between two given number on one side of:: and one number is given on another side of:: while another number is to be found from the given alternatives, having the same relation with this number as the numbers of the given pair bear. Choose the best alternative.

**69.** 425 : 2 :: 613: ?

(A) 1

(B) 2

(C) 3

(D) 4

**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.



**†** 





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



Reg. & Corp.Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Rai.)-324005

Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in

### SAMPLE TEST PAPER (STP) | CLASS: IX TO X MOVING

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

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

Reg. & Corp.Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

Website: www.resonance.ac.in | E-mail : contact@resonance.ac.in

Resonance®					PCCP ResoNE	T 2024	Objective Response Sheet (ORS)		
•	_	COURSE NAME		1	PCCP NESONE	1-2024	2024-2025		
	Γ	PCCP Course	0	Арр	lication Form N	lo.			
		WINNER	0	ı	lent's Name				
		WISDOM	0		ital Letters Only City / Venue		CLASS		
				Roo	m No.	Test	Date Date		
				Darke	n the bubble complet	ely Right (A) (B)	● ⊚ Wrong ⊗ ⊚ ⊚		
				Note	:Students are ad	vised-do not disturb			
						arks (Dark Circles ORS). Other wise	Application Form No.		
					will not be proces	•			
					•		0000000		
	1	0000		46	0000	CLASS	00000000		
	2	00000000		47 48	0000		000000000		
	4	$\Theta \odot \odot \odot$		49	<u> </u>	00	0000000		
	5	$\Theta \Theta \Theta \Theta$		50	$\Theta \Theta \Theta \Theta$	0 0	00000000		
	6 7	0000		51 52	000000	0 0 9 0	00000000		
	8	0000		53	0000	őő	00000000		
	9	$\Theta \odot \odot \odot$		54	$\Theta \odot \odot \odot$	99	00000000		
	10 11	0000		55 56	0000	00			
	12	0000		57	0000	0 0 0 0	MEDIUM		
	13	$\Theta \odot \odot \odot$		58	$\Theta \odot \Theta \odot$	ŏŏ			
	14	0000		59	0000		English 🖲 🖲 Hindi		
•	15 16	0000		60 61	0000 0000		⊢——		
	17	$\Theta \odot \odot \odot$		62	0000		CATEGORY		
	18	0000		63	0000				
	19 20	0000		64 65	0000		General () OBC ()		
	21	0000		66	0000		sc O		
	22	0000		67	$\Theta \odot \odot \odot$		ST Ö		
	23 24	0000		68	0000		ST () DS () PH ()		
	25	0000		70	0000		"		
	26	0000		71	$\Theta \odot \odot \odot$				
	27	0000		72	0000				
	28 29	0000		73 74	000000				
	30	<b>0000</b>		75	@@@				
	31	0000		76	0000				
	32 33	0000		77 78	0000				
	34	0000		79	$\Theta \odot \Theta \odot$				
	35	0000		80	$\Theta \odot \odot \odot$				
	36 37	0000		81 82	000000				
	38	0000		83	0000				
	39	$\Theta \odot \odot \odot$		84	$\Theta \odot \Theta \odot$				
	40 41	0000		85 86	0000				
	42	0000		87	0000				
	43	$\Theta \odot \odot \odot$		88	$\Theta \odot \Theta \odot$				
	44	0000		89	0000				
	45	$\Theta \odot \odot \odot$		90	$\Theta \odot \Theta \odot$	Please turn overleaf	f & fillup the required information		



Reg. & Corp. Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)-324005

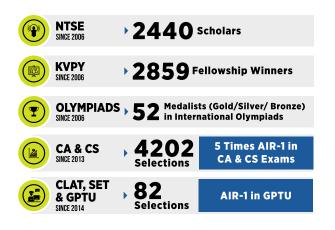
Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in
Toll Free: 1800 258 5555 | CIN: U80302RJ2007PLC024029

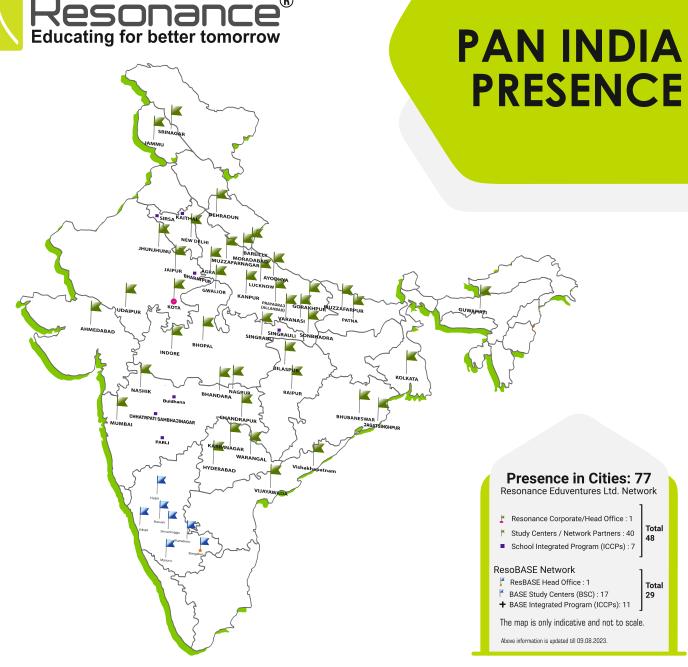




#### Resonance: The Legacy of 22 Years of Academic Excellence [2001-2023]







## **REGISTERED & CORPORATE OFFICE (CIN: U80302RJ2007PLC024029)**

CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Rajasthan) - 324005

STUDY CENTRES: Agra: 0562-4034879 | Ahmedabad: 079-48001701 | Ayodhya: 6390006701 | Bareilly: 7060022807 | Bhandara: 9607962727 | Bhopal - Lalghati: 8823877733 | M.P. Nagar: 9589827733 | Bhubaneswar: 9672244400 | Bilaspur: 9109995591 | Chandrapur: 8788443797 | Dehradun: 7060960877 | Gorakhpur: 8853211001 | Guwahati:  $6900491255 | \textbf{Hyderabad - Kukatpally:} \ 9121144126 | \textbf{Madhapur:} \ 9121144137 | \textbf{Tarnaka:} \ 9121144135 | \textbf{West Maredpally:} \ 9121144128 | \textbf{Indore - Annapurna:} \ 0731-4046267 | \textbf{South Mathapatranea:} \ 0731-4046267 | \textbf{South Mathap$  $\textbf{Tukoganj:}\ 0731-4005695 \ |\ \textbf{Jagatsinghpur:}\ 9348535129 \ |\ \textbf{Jhunjhunu:}\ 9116768390 \ |\ \textbf{Jaipur-Tonk Road:}\ 8306233301 \ |\ \textbf{Pratap Nagar:}\ 8306233305 \ |\ \textbf{Jammu:}\ 9419607066 \ |\ \textbf{Kanpur:}\ 9419607066 \ |\$  $9170099688 \mid$ Karimnagar:  $9052116688 \mid$ Kolkata:  $9332014591 \mid$ Lucknow - Alambagh:  $9839419722 \mid$ Hazaratganj:  $0522-4300040 \mid$ Moradabad:  $7060496389 \mid$ Mumbai- Andheri: 9769210460 | Borivali: 9769210453 | Churchgate: 9769210460 | Kalyan: 8779851819 | Panvel: 9930269180 | Thane: 8369520381 | Virar: 7718866633 | Muzaffarnagar:  $9997179898 \\ | \textbf{Muzaffarpur:} 7292888884 \\ | \textbf{Nagpur-Hudkeshwar:} 9096194172 \\ | \textbf{Manish Nagar:} 0712-2537222 \\ | \textbf{Pragati:} 0712-2537222 \\ | \textbf{Vinamra:} 0712-2760233 \\ | \textbf{Nashik-Canada:} 0712-276023 \\ | \textbf{Nashik-Canada:} 0712-276023 \\ | \textbf{Nashik-Canada:$ Corner: 8380830444 | HAL Township: 9773378835 | Nashik Road: 8390890444 | New Delhi: 7340010308 | Patna: 9304275695 | Prayagraj (Allahabad): 7355156950 | Raipur: 7771007839 | Singrauli NTPC: 7728890115 | Sonbhadra: 7311125100 | Srinagar: 9103167371 | Udaipur: 7340010318 | Varanasi: 7311121381 | Vijayawada: 8897623332 | **Visakhapatnam:** 9611235235 | **Warangal:** 9959910011

SCHOOL TIEUPS: Buldana: 9970282821 | Bharatpur: 9414023374 | Chhatrpati Sambhajinagar: 9343959595 | Kaithal: 9992771695 | Parli: 7020205002 | Singrauli NTPC: