

# • SAMPLE TEST PAPER •

Resonance National Entrance Test (ResoNET)

For Pre-foundation Career Care Programmes (PCCP)

**FOR CLASS VIII**



**Practice, Persistence and Performance**





**CG Tower Campus, Kota**



## 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:**  
 Established on: 11<sup>th</sup> April, 2001  
 Head Quarter: Kota (Rajasthan)  
 PAN India Network: 70+ Cities

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.	Distance Learning Programme Division (DLPD)	V to XII & XII+	JEE (Main)   JEE (Advanced)   NEET (UG)   OLYMPIADS   PRE-FOUNDATION   OTHERS
6.	EdTech Division	V to XII & XII+	JEE (Main)   JEE (Advanced)   NEET (UG)   PRE-FOUNDATION
7.	Resonance International Studies Division (Reso-ISD)	VI to XII & XII+	JEE (Main)   JEE (Advanced)   NEET (UG)   OLYMPIADS   PRE-FOUNDATION Upcoming: SAT   IELTS   GRE   PTE

<b>CLASS</b> <span style="font-size: 2em; font-weight: bold;">VIII</span>	<h2 style="margin: 0;">SAMPLE TEST PAPER (STP)</h2> <p style="margin: 0;">(For Class-VII Passed Students)</p> <p style="margin: 0;"><b>CLASS-VIII (FOR CLASS VII TO VIII MOVING STUDENT)</b></p> <p style="margin: 0;"><b>TARGET: SCHOOL / OLYMPIAD/IJSO</b></p>
--	--

S.No.	Particulars	Page Number		Total Pages
		From	To	
1	Guidelines and Instructions for Entrance Test	2	2	1
2	ResoNET Question Paper Structure & Syllabus	3	3	1
3	<b>Sample Test Paper (STP):</b> For Class VII passed students (For the students applying for course Class VII to VIII 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
	<b>Total Pages</b>			<b>11</b>

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). Previous 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.

## 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.

## RESONET QUESTION PAPER STRUCTURE

### For Class VII to VIII Moving Student

S.No.	Part	Subject	Type of Question	No. of Ques.	Marking Scheme		
					Full Marks per Qs.	Negative Marking	Total
1 to 25	I	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	Single Choice Questions (Only One Correct Option) (MCQ)	15	3	0	45
<b>Total</b>				<b>70</b>			<b>210</b>

### RESONET SYLLABUS FOR FOUNDATION & OLYMPIAD (PREVIOUS YEAR)

#### FOR CLASS VII TO VIII MOVING STUDENT

SUBJECT	SYLLABUS FROM CLASS	TOPIC
MATHEMATICS	VII	Integers, Fractions & Decimal, Rational Number, Lines & Angles, Triangles Congruency Triangles, Exponents, Algebraic Expression, Statistics, Probability, Triangles, Symmetry, Mensuration, Linear Equation, Ratio & Proportion, Percentage, Profit, Loss & Discount.
PHYSICS	VII	Measurement, Motion & Time, Heat, Sound, Electricity, Light, Wind, Strom & Cyclones, Universe.
CHEMISTRY	VII	General Chemistry, Fibre to Fabric, Acids, Bases & Salt, Physical and chemical changes, Water A Precious Resources.
BIOLOGY	VII	Nutrition in Plants, Nutrition in Animals, Weather, Climate & Adaptations Respiration, Transportation, Forest Our Lifeline, Soil, Reproduction, Food, Movements in animals, Cellular Level of Organization.
MENTAL ABILITY	VII	Alphabet Test, Series completion, Missing term in figure, Mathematical operations, Coding-Decoding, Direction Sense, Ranking & Ordering- Test, Sitting arrangement, Puzzle Test, Analogy & Classification, Figure Partition & counting, Clock Test, Non Verbal Series & Classification, Dice Test, Water Mirror Image.

<b>CLASS</b> <span style="font-size: 2em; font-weight: bold;">VIII</span>	<h2 style="margin: 0;">SAMPLE TEST PAPER (STP)</h2> <p style="margin: 0;">(For Class-VII Passed Students)</p> <p style="margin: 0;"><b>CLASS-VIII (FOR CLASS VII TO VIII MOVING STUDENT)</b></p> <p style="margin: 0;"><b>TARGET: SCHOOL / OLYMPIAD/IJSO</b></p>
--	--

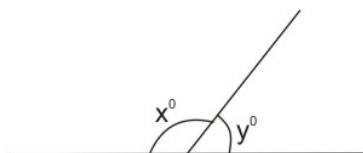
**For Class VII to VIII Moving Student**

S.No.	Part	Subject	Type of Question	No. of Ques.	Marking Scheme		
					Full Marks per Qs.	Negative Marking	Total
1 to 25	I	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	Single Choice Questions (Only One Correct Option) (MCQ)	15	3	0	45
<b>Total</b>				<b>70</b>			<b>210</b>

**PART-I : MATHEMATICS**

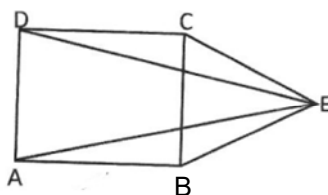
This section contains 25 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

1. The product of a positive integer and a negative integer is  
 (A) negative                      (B) positive.                      (C) 0.                      (D) can't say.
2. If a books is  $12\frac{1}{2}$  cm long and  $10\frac{2}{3}$  cm wide, then its perimeter (in cm) will be  
 (A)  $\frac{112}{6}$                       (B)  $\frac{139}{6}$                       (C)  $\frac{139}{3}$                       (D)  $\frac{140}{3}$
3. The rational number whose numerator is  $(-3) \times 2$  and denominator is  $(17 - 12)$  is  
 (A)  $\frac{6}{5}$                       (B)  $-\frac{6}{5}$                       (C)  $-\frac{6}{4}$                       (D)  $\frac{5}{7}$
4. In the given figure. If,  $x = 2y$ , then the value x and y will be respectively.

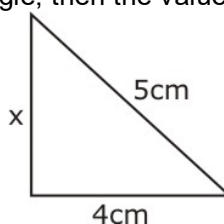


- (A)  $50^\circ, 130^\circ$ .                      (B)  $60^\circ, 120^\circ$                       (C)  $90^\circ, 90^\circ$ .                      (D)  $120^\circ, 60^\circ$ .

5. In the adjoining figure ABCD is a square and EBC is an equilateral triangle. The measure of  $\angle EAB$  is equal to \_\_\_\_\_.



- (A)  $15^\circ$                       (B)  $30^\circ$                       (C)  $\left(22\frac{1}{2}\right)^\circ$                       (D)  $45^\circ$
6. Two angles are congruent. If one of them is  $70^\circ$ , the other one is  
 (A)  $20^\circ$ .                      (B)  $60^\circ$ .                      (C)  $70^\circ$ .                      (D)  $110^\circ$
7. If  $3^{1/3} \times 3^{1/6} = 3^{-x}$ , the value of 'x' will be  
 (A)  $1/2$ .                      (B)  $1/3$ .                      (C)  $-1/3$ .                      (D)  $-1/2$ .
8. The expression, that should be added to  $3x^2 + 4xy - y^2$  in order to get  $5x^2 - 3y^2$ , is  
 (A)  $2x^2 - 2y^2 - 4xy$ .      (B)  $-2x^2 + 2y^2 + 4xy$ .      (C)  $2x^2 + 2y^2$ .                      (D)  $2x^2 - 4xy$ .
9. Find the combined mean of a group of 150, if the mean of 50 students is 40 and that of other 100 students is 50.  
 (A) 46.67                      (B) 45.67                      (C) 50.67                      (D) 48.67
10. If a card is drawn from a pack of cards. The probability of getting black ace or red king is :  
 (A)  $\frac{1}{52}$                       (B)  $\frac{1}{26}$                       (C)  $\frac{1}{13}$                       (D) None of these
11. If the given figure is right angle triangle, then the value of x is

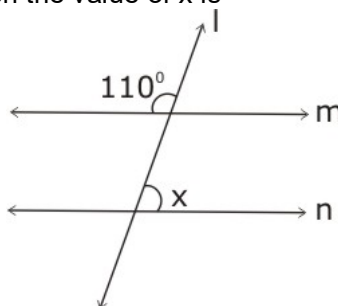


- (A) 3 cm.                      (B) 4 cm.                      (C) 5 cm.                      (D) 6 cm.
12. The number of line(s) of symmetry in a cone is (are)  
 (A) 4.                      (B) 3.                      (C) 2.                      (D) 1.
13. If the area of a rectangle is  $7820 \text{ m}^2$  and its width is 85 m then its length will be  
 (A) 92m.                      (B) 84m.                      (C) 65m.                      (D) 37 m.
14. If three consecutive even whole numbers are added together the result is 42. The numbers are  
 (A) 12, 13 and 14.      (B) 12, 14 and 16.      (C) 10, 12 and 14.      (D) 14, 16 and 18.
15. The sum of the squares of three numbers which are in the ratio 2 : 3 : 4 is 725. What are the numbers?  
 (A) 15, 10, 25                      (B) 10, 15, 20                      (C) 10, 8, 20                      (D) 13, 15, 17
16. The percentage form of  $3/4$  is  
 (A) 60%.                      (B) 45%.                      (C) 75%.                      (D) 40%.

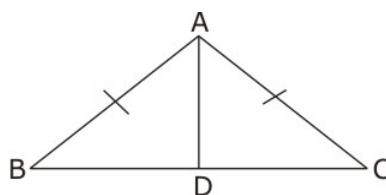
17. A person sells an article for Rs 660, gaining  $\frac{1}{10}$  of its CP. His gain percent is  
 (A) 10%. (B) 15%. (C) 20%. (D) 25%.
18. Negative of a negative integer is  
 (A) negative (B) zero (C) positive (D) none
19. The percentage of the greatest number is the least number if  $\frac{3}{5}$ ,  $\frac{9}{5}$ ,  $\frac{1}{5}$  and  $\frac{7}{5}$  are arranged in ascending or descending order is  
 (A) 10%. (B)  $\frac{100}{9}$ %. (C) 20%. (D) 25%.

20. Simplify  $\frac{\left(-18\frac{1}{3} \times 2\frac{8}{11}\right) - \left(4\frac{5}{7} \times 2\frac{1}{3}\right)}{\left|\frac{3}{5} + \left(-\frac{9}{10}\right)\right| + \left|-\left(-\frac{3}{5}\right)\right|}$   
 (A)  $63\frac{4}{81}$  (B)  $23\frac{7}{9}$  (C)  $-67\frac{7}{9}$  (D)  $12\frac{6}{17}$

21. In the given figure. If  $n \parallel m$  then the value of  $x$  is



- (A)  $50^\circ$ . (B)  $70^\circ$ . (C)  $90^\circ$ . (D)  $110^\circ$ .
22. One of the angles of a triangle is 70 degrees and the other two are equal. The equal angles measure  
 (A)  $60^\circ$  and  $60^\circ$ . (B)  $55^\circ$  and  $55^\circ$ . (C)  $35^\circ$  and  $35^\circ$ . (D)  $30^\circ$  and  $30^\circ$ .
23. In the given figure, AD is the bisector of  $\angle BAC$  and  $AB = AC$ .



- Then the relation  $\triangle ADB \cong \triangle ADC$  is defined by rule  
 (A) SSS. (B) SAS. (C) ASA. (D) RHS.
24. If  $4^n = 1024$ , then  $6^{2n-8}$  is  
 (A) 3. (B) 6. (C) 12. (D) 36.
25. A photo frame of 24 cm long and 18 cm wide is edged with a piece of wood of 2 cm wide. The cost of edging at the rate of Rs 2.25 per sq. cm would be  
 (A) Rs 785. (B) Rs 920. (C) Rs 350. (D) Rs 414.

## 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. To measure the girth of a tree one may use  
(A) measuring tape. (B) beam balance. (C) balance wheel. (D) spring balance.
27. In 10 minutes, a car with speed of  $60 \text{ kmh}^{-1}$  travels a distance of :  
(A) 6 km (B) 600 km (C) 10 km (D) 7 km
28. Human body temperature is normally :  
(A)  $32^\circ\text{F}$  (B)  $0^\circ\text{F}$  (C)  $100.4^\circ\text{F}$  (D)  $98.6^\circ\text{F}$
29. Pitch of high frequency sound is-  
(A) high (B) low (C) zero (D) infinite
30. Electric bulbs :  
(A) gives light and heat due to magnetic effect of current.  
(B) gives light and heat due to heating effect of current.  
(C) are better than compact fluorescent lamps.  
(D) has silver filament.
31. The image formed by a plane mirror is-  
(A) Of smaller size, if the mirror is larger.  
(B) Of smaller size, if the mirror is smaller.  
(C) Of the same size as that of the object – does not matter if the mirror is small or large.  
(D) Of larger size, if the mirror is larger.
32. On blowing air into balloon, the size of the balloon increases because  
(A) Air exerts pressure (B) Warm air rises up  
(C) Air is stronger than balloon (D) none
33. The body burning like a star and coming towards the earth is \_\_\_\_\_.  
(A) Comet (B) Meteor (C) Ceres (D) Satellites
34. An electric cell is represented by-  
(A) two parallel lines, longer one followed by shorter one.  
(B) three parallel lines.  
(C) one line.  
(D) none of these
35. In an image obtained by a plane mirror, left side of the object appears to be :  
(A) The left side of the image (B) The right side of the image  
(C) The top of the image (D) The bottom of the image

## 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. Valency of carbon is:-  
(A) 2 (B) 5 (C) 6 (D) 4
37. The electronic configuration of the sodium [Na] atom is -  
(A) 2, 8, 2 (B) 2, 8, 1 (C) 2, 8 (D) 2, 8, 8, 1
38. Copper does not react with:  
(A) Dil. HCl (B) Dil.  $\text{H}_2\text{SO}_4$  (C) both (D) None of these

39. Match the column-1 with column-2 and select the correct option from the codes given below
- | <b>Column-1</b>      | <b>Column-2</b>         |
|----------------------|-------------------------|
| <b>Material</b>      | <b>Smell on burning</b> |
| a. Cotton            | i. Burning plastic      |
| b. Wool              | ii. Burning paper       |
| c. Nylon             | iii. Burning hair       |
| (A) a-i, b-ii, c-iii | (B) a-iii, b-i, c-ii    |
|                      | (C) a-iii, b-ii, c-i    |
|                      | (D) a-ii, b-iii, c-i    |
40. Water harvesting is done to-
- |                                |                           |
|--------------------------------|---------------------------|
| (A) store water underground    | (B) store water in fields |
| (C) distribute water in fields | (D) None of these         |
41. A base which dissolves in water is called -
- |                    |               |             |              |
|--------------------|---------------|-------------|--------------|
| (A) A soluble base | (B) An alkali | (C) An acid | (D) An oxide |
|--------------------|---------------|-------------|--------------|
42. Slow eating away of iron articles in the presence of moist air is called -
- |                   |                     |             |                    |
|-------------------|---------------------|-------------|--------------------|
| (A) galvanisation | (B) crystallisation | (C) rusting | (D) neutralisation |
|-------------------|---------------------|-------------|--------------------|
43. The acid used for preserving food articles is
- |                  |                    |                     |                  |
|------------------|--------------------|---------------------|------------------|
| (A) acetic acid. | (B) tartaric acid. | (C) sulphuric acid. | (D) nitric acid. |
|------------------|--------------------|---------------------|------------------|
44. The growth of the living organism is a
- |                           |                      |
|---------------------------|----------------------|
| (A) physical change.      | (B) chemical change. |
| (C) environmental change. | (D) social change    |
45. The process by which energy is released from the body is known as
- |                    |                  |                     |                   |
|--------------------|------------------|---------------------|-------------------|
| (A) transpiration. | (B) respiration. | (C) photosynthesis. | (D) condensation. |
|--------------------|------------------|---------------------|-------------------|

**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. Chlorophyll is present in –
- |                 |              |                |                 |
|-----------------|--------------|----------------|-----------------|
| (A) Chloroplast | (B) Ribosome | (C) Leucoplast | (D) Chromoplast |
|-----------------|--------------|----------------|-----------------|
47. During extreme aridity, desert rat
- |                  |                          |                 |                        |
|------------------|--------------------------|-----------------|------------------------|
| (A) stores water | (B) uses metabolic water | (C) saves water | (D) does not use water |
|------------------|--------------------------|-----------------|------------------------|
48. Opening of stomata is guarded by
- |                     |                 |           |            |
|---------------------|-----------------|-----------|------------|
| (A) Mesophyll cells | (B) Guard cells | (C) Xylem | (D) Phloem |
|---------------------|-----------------|-----------|------------|
49. The colour of blood is red due to the presence of
- |               |                |                 |         |
|---------------|----------------|-----------------|---------|
| (A) magnesium | (B) cytoglobin | (C) haemoglobin | (D) All |
|---------------|----------------|-----------------|---------|
50. In a natural ecosystem, decomposers include
- |                         |                     |
|-------------------------|---------------------|
| (A) Bacteria and fungi  | (B) Parasitic algae |
| (C) Macroscopic animals | (D) All the above   |
51. Process of removal of insoluble impurities from water is called
- |                   |                 |                  |                |
|-------------------|-----------------|------------------|----------------|
| (A) Sedimentation | (B) Percolation | (C) Distillation | (D) Filtration |
|-------------------|-----------------|------------------|----------------|
52. Reproductive part of a plant is:
- |          |          |            |          |
|----------|----------|------------|----------|
| (A) Root | (B) Stem | (C) Flower | (D) Leaf |
|----------|----------|------------|----------|
53. Iodine solution is used for -
- |                         |                              |
|-------------------------|------------------------------|
| (A) Testing for fat     | (B) Testing for carbohydrate |
| (C) Testing for protein | (D) Testing for vitamin      |
54. Looping and somersaulting movements are found in
- |             |            |           |                 |
|-------------|------------|-----------|-----------------|
| (A) Euglena | (B) Amoeba | (C) Hydra | (D) Trypanosoma |
|-------------|------------|-----------|-----------------|
55. In which light, plants show maximum rate of photosynthesis?
- |           |         |            |            |
|-----------|---------|------------|------------|
| (A) Green | (B) Red | (C) Orange | (D) Violet |
|-----------|---------|------------|------------|

**PART-V : MENTAL ABILITY**

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.

**Directions : (56)** : Arrange the following group such that when arranged in a specific order, meaningful word is formed

56. **T L E M N A**  
**1 2 3 4 5 6**

- (A) 2,6,4,5,3,1 (B) 3,2,4,6,5,1 (C) 4,3,5,1,6,2 (D) 5,3,2,4,6,1

**Directions : (57 to 58)** Find the missing terms ?

57. ABCA, BCDB, CDEC, DEFD, ?  
(A) EFHE (B) FEGF (C) EFGF (D) EFGE

58.  $36 \begin{matrix} 1 \\ \circlearrowleft \\ 19 \\ \circlearrowright \\ 25 \end{matrix} 16$      $100 \begin{matrix} 49 \\ \circlearrowleft \\ 17 \\ \circlearrowright \\ 81 \end{matrix} 64$      $25 \begin{matrix} 4 \\ \circlearrowleft \\ ? \\ \circlearrowright \\ 16 \end{matrix} 9$

- (A) 6 (B) 7 (C) 8 (D) 9

59. If + is x, - is +, x is ÷ and ÷ is -, then what is the value of given equation?  
 $21 \div 8 + 2 - 12 \times 3$

- (A) 14 (B) 9 (C) 13.5 (D) 11

60. In a certain code, if **GUN** is coded as **309**, **DEAR** as **1498**, how is **UNDER** coded in that code?  
(A) 90148 (B) 39148 (C) 09148 (D) 49138

61. A watch shows 4:30, if the minute hand points to West in which direction does the hour hand point?  
(A) North-West (B) South-East (C) South-West (D) West

62. How many A are in the given letter series which does not has B just before it but has C just after it?  
DACBACDACBCACBACBADC  
(A) 3 (B) 4 (C) 5 (D) 6

**Direction : (63)** A,B,C are three boys while R,S,T are three girls. They are sitting such that the boys are facing the girls.  
A and R are diagonally opposite to each other.  
C is not sitting at any of the ends.  
T is left to R but opposite to C.

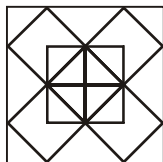
63. Who is sitting diagonally opposite to B?  
(A) R (B) S (C) T (D) None of these

64. Introducing a man, a woman says. "His wife is the only daughter of my father". How is the man related to the woman?  
(A) Brother (B) Father-in-law (C) Maternal uncle (D) Husband

**Directions : (65)** 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 having. Choose the best alternative.

65.  $6 : 35 :: 11 : ?$   
(A) 121 (B) 120 (C) 56 (D) 54

66. How many squares does the figure have?



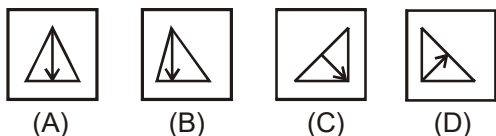
- (A) 10                      (B) 11                      (C) 12                      (D) 14

67. In 30 minute, the minute hand travels \_\_\_\_\_ .

- (A) 6°                      (B) 180°                      (C) 120°                      (D) 130°

**Directions: (68)** 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.

68.



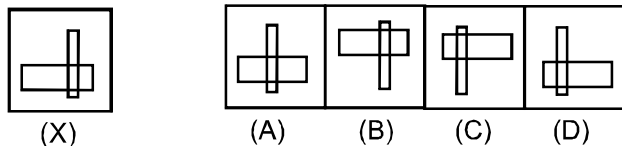
69. The number opposite to 4 is



- (A) 1                      (B) 2                      (C) 5                      (D) 6

**Directions : (70)** In each of the following questions, choose the correct mirror image from alternatives A, B, C, and D of the Word /number / figure (X).

70.



Space for Rough Work

**ANSWER KEY (AK)**

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

# SAMPLE TEST PAPER (STP)



PCCP ResoNET-2026

Objective Response Sheet (ORS)  
2026-2027

<b>COURSE NAME</b> PCCP Course <input type="radio"/>  WINNER <input type="radio"/>  WISDOM <input type="radio"/>	Application Form No. <input style="width: 100px;" type="text"/>  Student's Name <input style="width: 200px;" type="text"/> (Capital Letters Only) Test City / Venue _____ CLASS _____  Room No. _____ Test Date <input style="width: 100px;" type="text"/>
---	--

Darken the bubble completely    Right (A) (B) (C) (D)    Wrong (A) (B) (C) (D)

**Note :Students are advised-do not disturb the five guide view marks (Dark Circles -- printed on corners of ORS). Other wise ORS will not be processed for result.**

**Application Form No.**

0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

- 1    (A) (B) (C) (D)
- 2    (A) (B) (C) (D)
- 3    (A) (B) (C) (D)
- 4    (A) (B) (C) (D)
- 5    (A) (B) (C) (D)
- 6    (A) (B) (C) (D)
- 7    (A) (B) (C) (D)
- 8    (A) (B) (C) (D)
- 9    (A) (B) (C) (D)
- 10   (A) (B) (C) (D)
- 11   (A) (B) (C) (D)
- 12   (A) (B) (C) (D)
- 13   (A) (B) (C) (D)
- 14   (A) (B) (C) (D)
- 15   (A) (B) (C) (D)
- 16   (A) (B) (C) (D)
- 17   (A) (B) (C) (D)
- 18   (A) (B) (C) (D)
- 19   (A) (B) (C) (D)
- 20   (A) (B) (C) (D)
- 21   (A) (B) (C) (D)
- 22   (A) (B) (C) (D)
- 23   (A) (B) (C) (D)
- 24   (A) (B) (C) (D)
- 25   (A) (B) (C) (D)
- 26   (A) (B) (C) (D)
- 27   (A) (B) (C) (D)
- 28   (A) (B) (C) (D)
- 29   (A) (B) (C) (D)
- 30   (A) (B) (C) (D)
- 31   (A) (B) (C) (D)
- 32   (A) (B) (C) (D)
- 33   (A) (B) (C) (D)
- 34   (A) (B) (C) (D)
- 35   (A) (B) (C) (D)
- 36   (A) (B) (C) (D)
- 37   (A) (B) (C) (D)
- 38   (A) (B) (C) (D)
- 39   (A) (B) (C) (D)
- 40   (A) (B) (C) (D)
- 41   (A) (B) (C) (D)
- 42   (A) (B) (C) (D)
- 43   (A) (B) (C) (D)
- 44   (A) (B) (C) (D)
- 45   (A) (B) (C) (D)

- 46   (A) (B) (C) (D)
- 47   (A) (B) (C) (D)
- 48   (A) (B) (C) (D)
- 49   (A) (B) (C) (D)
- 50   (A) (B) (C) (D)
- 51   (A) (B) (C) (D)
- 52   (A) (B) (C) (D)
- 53   (A) (B) (C) (D)
- 54   (A) (B) (C) (D)
- 55   (A) (B) (C) (D)
- 56   (A) (B) (C) (D)
- 57   (A) (B) (C) (D)
- 58   (A) (B) (C) (D)
- 59   (A) (B) (C) (D)
- 60   (A) (B) (C) (D)
- 61   (A) (B) (C) (D)
- 62   (A) (B) (C) (D)
- 63   (A) (B) (C) (D)
- 64   (A) (B) (C) (D)
- 65   (A) (B) (C) (D)
- 66   (A) (B) (C) (D)
- 67   (A) (B) (C) (D)
- 68   (A) (B) (C) (D)
- 69   (A) (B) (C) (D)
- 70   (A) (B) (C) (D)
- 71   (A) (B) (C) (D)
- 72   (A) (B) (C) (D)
- 73   (A) (B) (C) (D)
- 74   (A) (B) (C) (D)
- 75   (A) (B) (C) (D)
- 76   (A) (B) (C) (D)
- 77   (A) (B) (C) (D)
- 78   (A) (B) (C) (D)
- 79   (A) (B) (C) (D)
- 80   (A) (B) (C) (D)
- 81   (A) (B) (C) (D)
- 82   (A) (B) (C) (D)
- 83   (A) (B) (C) (D)
- 84   (A) (B) (C) (D)
- 85   (A) (B) (C) (D)
- 86   (A) (B) (C) (D)
- 87   (A) (B) (C) (D)
- 88   (A) (B) (C) (D)
- 89   (A) (B) (C) (D)
- 90   (A) (B) (C) (D)

**CLASS**

--	--

- (0) (0)
- (1) (1)
- (2) (2)
- (3) (3)
- (4) (4)
- (5) (5)
- (6) (6)
- (7) (7)
- (8) (8)
- (9) (9)

**MEDIUM**

English (E) (H) Hindi

**CATEGORY**

- General
- OBC
- SC
- ST
- DS
- PH

Please turn overleaf & 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

**STPPH226\_CLASS-VIII # 12**



# GET UPTO 100% SCHOLARSHIP



On the basis of  
X/ XII Board Result



On the basis of  
ResoNET Result



On the basis of JEE (M & A)/  
NEET (UG) Result



On the basis of  
Various Olympiads Result



30%

जवाहर नवोदय  
विद्यालय (JNV) के  
विद्यार्थियों के लिए



40%

हिन्दी माध्यम  
के विद्यार्थियों  
के लिए



40%

CHILDREN OF  
DEFENCE &  
PARAMILITARY STAFF



50%

WARDS OF  
SINGLE PARENT  
(Mother Only)



40%

CHILDREN  
OF POLICE & CRPF  
PERSONNEL



10%

Additional  
WARDS OF TEACHERS  
( GOVT. / PRIVATE)



10% in YCCP  
25% in PCCP

SIBLINGS



10%

SIBLING OF  
RESO YCCP ALUMNI



10%

CHILDREN OF  
NCC PERSONNEL



40%

CHILDREN  
OF RAILWAY  
PERSONNEL

## बेटियों के लिए विशेष

न्यूनतम 25% स्कॉलरशिप



### Details of upto 100% Scholarship

On the Basis of Class X/ XII Board Examination Result				
S.No.	% in X/ XII Board Exam	YCCPs Only	X Board Science/Maths	XII Board PCM/B
1.	Top-3 in State Merit*	90%	—	—
2.	Rank 4-15 in State Merit*	75%	—	—
3.	Top-3 in District Merit*	50%	—	—
4.	≥ 95%	40%	30%	20%
5.	≥ 90% & <95%	30%	20%	20%
6.	≥ 80% & <90%	10%	10%	10%

On the Basis of International Olympiads Conducted by HBCSE		
S.No.	Scholarship Criteria	% S'ship
1.	Stage III Qualified for International Jr. Astronomy/ Jr.Science Olympiad (Conducted-HBCSE) - NSEs	100%
2.	Stage II Qualified for International Jr. Astronomy/ Jr.Science Olympiad (Conducted-HBCSE) - NSEs	90%
3.	Stage I Qualified for International Jr. Astronomy/ Jr.Science Olympiad (Conducted-HBCSE) - NSEs	75%
4.	Stage III Qualified for International Sr. Astronomy/Phy/ Chem/Math/Biology Olympiad (Conducted-HBCSE) - NSEs	100%
5.	Stage II Qualified for International Sr. Astronomy/Phy/ Chem/Math/Biology Olympiad (Conducted-HBCSE) - NSEs	90%
6.	Stage I Qualified for International Sr. Astronomy/Phy/ Chem/Math/Biology Olympiad (Conducted-HBCSE) - NSEs	75%
7.	Based on Pre-RMO	50%