Educating for better tomorrow


## Practice, Persistence and Performance



| S．No． | Particulars | Page <br> Number |  | Total <br> Pages |
| :---: | :--- | :---: | :---: | :---: |
|  |  | From | To | 2 |
| $\mathbf{1}$ | Guidelines and Instructions for Entrance Test | 3 | 3 | 1 |
| $\mathbf{2}$ | ResoNET Question Paper Structure \＆Syllabus | 4 | 9 | 6 |
| $\mathbf{3}$ | Sample Test Paper（STP）：For Class IV passed students（For the students <br> applying for course Class IV to V moving Student）． | 10 | 10 | 1 |
| $\mathbf{4}$ | Sample Test Paper：Answer Key（AK） | 11 | 11 | 1 |
| $\mathbf{5}$ | Sample ORS Answer Sheet for Resonance National Entrance Test <br> （ResoNET） |  | $\mathbf{1 0}$ |  |
|  | Total Pages |  |  |  |

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 11 ．

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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．

## SAMPLE TEST PAPER（STP）

RESONET QUESTION PAPER STRUCTURE

| For Class IV to V Moving Student |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S．No． | Part | Subject | Type of Question | No．of Ques． | Marking Scheme |  |  |
|  |  |  |  |  | Full Marks per Qs． | Negative Marking | Total |
| 1 to 25 | 1 | 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 |
| Total |  |  |  | 70 |  |  | 210 |

## RESONET SYLLABUS

|  | FOR CLASS IV TO V MOVING STUDENT |  |
| :--- | :---: | :--- |
| SUBJECT | SYLLABUS <br> FROM <br> CLASS | TOPIC |
| MATHEMATICS | IV | Knowing our Number，Operation on Large Numbers，Addition and <br> Substraction，Multiplication and Division，Factors and Multiples，Fractions， <br> Decimals，Time，Money，Measurement，Geomatery，Perimeter in Area． |
| PHYSICS | IV | Force，Work \＆Energy，Our Universe，Measurement． |
| CHEMISTRY | IV | Matter and Materials，Clothes，Air，Water \＆Weather． |
| BIOLOGY | IV | Living Things and Our Body，Food，Safety and First AID，Natural Resources． |
| MENTAL ABILITY | IV | Alphabet Test，Number series，Alphabet Series，Missing Term in Figure， <br> Mathematical Operations，Direction Sense，Analogy，Classification，Water， <br> Mirror Image，Figure Comletion． |



| For Class IX to X 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 | Mathemati CS | 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 |
| Total |  |  |  | 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. $13 \times 7=$ $\qquad$
(A) XCl
(B) Cl
(C) XXCl
(D) LXI
2. The number which is divisible by 2 but not by 4 is:
(A) 28
(B) 32
(C) 34
(D) 36
3. One more than $\qquad$ $=72500$
(A) 71499
(B) 72499
(C) 72501
(D) 72500
4. Vasu is arranging his father"s books in a new bookshelf which has 5 shelves. After putting 12 books in each shelf, he finds that 9 books are still left outside. How many books are there in total?
(A) 59
(B) 75
(C) 21
(D) 69
5. The product of all even numbers between 13 and 20 is:
(A) 4032
(B) 4096
(C) 81920
(D) 8192
6. are there in one whole.
(A) Two one-fourths
(B) One one-fourths
(C) Three one-fourths
(D) Four one-fourths
7. Subtract Rs 135.45 from Rs 400.20
(A) Rs. 345
(B) Rs. 243.70
(C) Rs. 264.75
(D) Rs. 192.50

## SAMPLE TEST PAPER (STP) \| CLASS: IV TO V MOVING

8. 120 minute $=$ $\qquad$ seconds
(A) 6000
(B) 1000
(C) 7200
(D) 8000
9. The symbol for paise is:
(A) ps
(B) pa
(C) $p$
(D) pi
10. $\quad 6006 \mathrm{~g}=$ $\qquad$ kg $\qquad$ g.
(A) $60 \mathrm{~kg}, 6 \mathrm{gm}$
(B) $600 \mathrm{~kg}, 6 \mathrm{gm}$
(C) $6 \mathrm{~kg}, 6 \mathrm{gm}$
(D) $6000 \mathrm{~kg}, 6 \mathrm{gm}$
11. 

(A) 2
(B) 4
(C) 3
(D) 5
12. One side of a square plot measures 120 m . Find its area.
(A) 1720 sq.m
(B) $14400 \mathrm{sq} . \mathrm{m}$
(C) 12100 sq.m
(D) 2400 sq.m
13. The number of $X$ symbols needed to represent the number 49 in Roman system is
(A) 3
(B) 1
(C) 2
(D) 4
14. On dividing 4172 by 12 we get $\qquad$ as the quotient and $\qquad$ as the remainder.
(A) $q=347, r=8$
(B) $q=348, r=8$
(C) $q=347, r=6$
(D) $q=346, r=8$
15. Parth washes his bicycle every third day:


If he washes his cycle on Saturday, the 5th of October 2013, on which day will he wash his cycle twice in the same month, other than Saturday?
(A) Monday
(B) Sunday
(C) Tuesday
(D) Wednesday
16. What is $205 \times 6$ ?
(A) $(200+50) \times 6$
(B) $(20+5) \times 6$
(C) $(200-5) \times 6$
(D) $200 \times 6+5 \times 6$
17. Pick out the prime number from the following:
(A) 17
(B) 27
(C) 39
(D) 49
18. Two-fifth of 10 litres $=$ $\qquad$ litres.
(A) 2
(B) 5
(C) 4
(D) 3
19. Which number is greater than $\frac{1}{2}$ ?
(A) $\frac{1}{4}$
(B) $\frac{2}{5}$
(C) $\frac{5}{2}$
(D) $\frac{1}{3}$
20. A year which is divisible by $\qquad$ is a leap year
(A) 2
(B) 5
(C) 3
(D) 4
21. What is the choice of coins you may use for paying Rs. 7.25?
(A) Three 2-rupee coins, one 1-rupee coin and two 25 paisa coins
(B) Three 2-rupee coins, two 50-paisa coins and one 25 paisa coin
(C) One 5-rupee coin and six 25-rupee coins
(D) One 5-rupee coin, one 1-rupee coin and nine 25- paisa coins
22. Convert 12 m 65 cm into mm .
(A) 1265 mm
(B) 12650 mm
(C) 126500 mm
(D) 12.65 mm

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## SAMPLE TEST PAPER (STP) | CLASS: IV TO V MOVING

23. In a triangle one angle is $65^{\circ}$ another is $35^{\circ}$. What is the third angle?
(A) $80^{\circ}$
(B) $90^{\circ}$
(C) $100^{\circ}$
(D) $45^{\circ}$
24. Find the perimeter of the triangle given bleow.

(A) 150 cm
(B) 90.6 cm
(C) 690 cm
(D) None of these
25. A rectangular park is 100 m long and 25 m wide. What is the perimeter of the rectangular park?
(A) 250 m
(B) 260 m
(C) 240 m
(D) 220 sm

## PART-II : SCIENCE (PCB)

This section contains 30 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which ONLY ONE is correct.
26. How many permanent teeth are there is an adult?
(A) thirty-two
(B) sixteen
(C) twenty
(D) twenty-two
27. How many molars are there in the upper jaw?
(A) Twelve
(B) Sixteen
(C) Six
(D) Eight
28. Cotton clothes keep us :
(A) warm
(B) cool
(C) wet
(D) dry
29. To protect clothes from usects, they are kept with :
(A) perfume
(B) sugar
(C) mothballs
(D) water
30. What is presen all around us?
(A) Solid
(B) Liquid
(C) Matter
(D) Water
31. All matter is made up of tiny particles called :
(A) molecules
(B) gases
(C) solids
(D) solutes
32. What kind of clothes should not be worn in the kitchen?
(A) Cotton
(B) Nylon
(C) Jute
(D) Linen
33. Which of the following is not kept in the first aid box?
(A) Cotton
(B) Scissors
(C) Gauze
(D) Plier
34. Green coloured substance present in leaves is:
(A) stomata
(B) veins
(C) lamina
(D) chlorophyll
35. Plants give out $\qquad$ during photosynthesh.
(A) oxygen
(B) carbon dioxide
(C) sunlight
(D) chlorophyll
36. Which of the following plants grows in water?
(A) Neem
(B) Duckweed
(C) Cactus
(D) Pine tree
37. A white jelly-like substance present in the egg is called :
(A) yolk
(B) egg shell
(C) embryo
(D) albumen

## SAMPLE TEST PAPER (STP) | CLASS: IV TO V MOVING

38. Birds sit on their eggs to keep them :
(A) cool
(B) round
(C) flat
(D) warm
39. Which of the following is a reptile?
(A) Shark
(B) Beetle
(C) Crocodile
(D) Frog
40. Which of follwing is an aquatic animals?
(A) Octopus
(B) Lizard
(C) Crow
(D) Camel
41. The blanket of air surrounding the earth's surface is:
(A) atmosphere
(B) nitrogen
(C) oxygen
(D) ozone layer
42. The method by which you can separate insoluble substances from water $\qquad$ :
(A) filtration
(B) sedimetation
(C) decantation
(D) all of these
43. Remains of plants and animals under the earth :
(A) Fossils
(B) Shale
(C) Limestone
(D) Gneiss
44. Some limestone is made of skeleton of tiny organisms know as
(A) coral
(B) Bacteria
(C) Virus
(D) Fungi
45. A ....... does not has a definite volume and shape :
(A) gas
(B) liquid
(C) solid
(D) all of these
46. Rats and rabbits live in
(A) Water
(B) Burrows
(C) Nests
(D) Trees
47. Particles in solides have
(A) Least energy
(B) lesser energy
(C) greatest energy
(D) greatest distances
48. Nerves which carry inpulses from brain
(A) Sensory
(B) Motor
(C) Mixed
(D) Optic
49. Other name of backbone is
(A) Skeleton
(B) Vertebral column
(C) Joint
(D) None of these
50. Diseases that can spread from one person to another :
(A) contagious diseases
(B) Non-contagious diseases
(C) Deficiency diseases
(D) All of these
51. A crossing marked with broad white strips:
(A) Zebra Crossing
(B) Picture of zebra
(C) Zigzag Line
(D) None of these
52. The process by which a seed produces a baby plant:
(A) Seed leaves
(B) Dispersal
(C) Germination
(D) Harvesting
53. The nerves are made up of
(A) medulla
(B) Nerve cells
(C) fibres
(D) none of these
54. Deficiency of this vitamin in the diet causes beri-beri :
(A) Vitamin A
(B) Vitamin B
(C) Vitamin C
(D) Vitamin D
55. A crack in a bone :
(A) Fracture
(B) Feature
(C) Figure
(D) All of these Educating for better tomorrow

## SAMPLE TEST PAPER (STP) \| CLASS: IV TO V MOVING

## PART-III : 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 given words in alphabetical order and choose the one that comes first.
56.
(A) flung
(B) flock
(C) feast
(D) flint

Directions : (57 to 59) Find the missing terms:
57. $13,22,31,40,49$, ?
(A) 58
(B) 56
(C) 54
(D) 53
58. $X, V, T, R, P, ?$
(A) N
(B) M
(C) K
(D) J
59.

(A) 2
(B) 4
(C) 5
(D) 6
60. If $\mathbf{y}$ stands for 'subtract', $\mathbf{z}$ stands for 'divide', and $\mathbf{p}$ stands for 'multiply,' then what is the value of 7 p 3 y 6 z 3 ?
(A) 7
(B) 19
(C) 15
(D) 20
61. A man walked 3 metres towards North, turned West and walked 2 metres then turned North and walked 1 metre and finally turned East and walked 2 metres. How far is he from the starting point?
(A) 5 m
(B) 4 m
(C) 10 m
(D) 12 m

Directions: (62) In each of the following questions, there are two terms to the left of the sign: which are related in some way. Obtain the same relationship between the term to the right of the sign: : from one of the four alternatives given under it.
62. $Z A: Y B:: X C: ?$
(A) YZ
(B) NM
(C) $B C$
(D) WD

Directions: (63) In each of the following questions, four words are given, out of which three are same in one way and the fourth one is different from others. Select the odd one.
63.
(A) Cricket
(B) Hockey
(C) Chess
(D) Football

Directions: (64) In each of the following questions, choose the correct mirror image from alternatives A, B, $C$, and $D$ of the Word / figure (X).
64.

(X)

(A)
(B)
(C)
(D)

Directions: (65) Select a figure from the alternatives which when placed in the blank space of (x) would complete the pattern?
65.

(A)

(B)

(C)

(D)
66. Find the missing terms:



(B) 7
(C) 6
(D) 17
(A) 8

Directions: (67) Arrange the given words in alphabetical order and choose the one that comes first.
(D)
67.
(A) fetus
(B) fluke
(C) furry
(D) flask

Directions: (68 to 69) Find the missing terms :
68. $1,3,5,7,9$ ?
(A) 13
(B) 15
(C) 17
(D) 11
69. $\mathrm{ZB}, \mathrm{DF}, \mathrm{HJ}, \mathrm{LN}$, ?
(A) RS
(B) VW
(C) TU
(D) PR

Directions: (70) Arrange the given words in alphabetical order and choose the one that comes first.
70. (A) gain
(B) gallon
(C) game
(D) gate

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

## SAMPLE TEST PAPER (STP) | CLASS: IV TO V MOVING

## FOR CLASS-IV TO V MOVING | SAMPLE TEST PAPER (STP)

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



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Presence in Cities: 77
Resonance Eduventures Ltd. Network

- Resonance Corporate/Head Office : 1

4 Study Centers / Network Partners : 40

- School Integrated Program (ICCPs) : 7

ResoBASE Network
R ResBASE Head Office : 1
${ }^{4}$ BASE Study Centers (BSC) : 17

+ BASE Integrated Program (ICCPs): 11
The map is only indicative and not to scale.
Above information is updated till 09.08.2023.


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