

Reso-NET SAMPLE TEST PAPER

FOR STUDENTS MOVING IN CLASS-VIII IN 2019-20

Time : 1½ Hr.

Max. Marks : 210

GENERAL INSTRUCTIONS

1. Question paper contains 70 questions of Mathematics (1 to 25), Physics (26 to 35), Chemistry (36 to 45), Biology (46 to 55) & Mental Ability (56 to 70), each question carry 3 mark.
2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
3. Write your Name and Roll No. in the space provided in the bottom of this booklet.
4. Before answering the paper, fill up the required details in the blank space provided in the answer sheet.
5. Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
6. There is no negative marks for wrong answer.
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. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.

MARKING CRITERIA

No. of Questions	Type	Marks		
		Correct	Incorrect	Blank
1-70	Only one correct	Q. No. 1 to 70 (3 Mark each)	NO NEGATIVE MARKS	0

IMPORTANT

PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET

Wrong Filling

- A B C D Tick mark
 A B C D Cross mark
 A B C D Half filled or semi dark
 A B C D Light filled

Right Filling

- A B C D Fully darken with HB Pencil
 A B C D Fully darken with HB Pencil
 A B C D Fully darken with HB Pencil
 A B C D Fully darken with HB Pencil

Name : _____ Roll No. : _____

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Syllabus of Class-VII_Reso NET

Mathematics :

- ❖ 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 :

- ❖ Measurement
- ❖ Motion & Time
- ❖ Heat
- ❖ Sound
- ❖ Electricity
- ❖ Light
- ❖ Wind, Storm & Cyclones
- ❖ Universe

Chemistry :

- ❖ General Chemistry
- ❖ Fibre to Fabric
- ❖ Acids, Bases & Salt
- ❖ Physical and chemical changes
- ❖ Water A Precious Resources

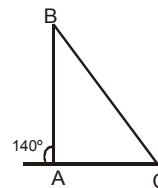
Biology :

- ❖ 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 :

- ❖ 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

1. $30 \times (-23) + 30 \times 14 = ?$
 (A) -270 (B) 270
 (C) 1110 (D) -1110
2. $(3/4) \left(1 + \frac{1}{3}\right) \left(1 + \frac{2}{3}\right) \left(1 - \frac{2}{5}\right) \left(1 + \frac{6}{7}\right) \left(1 - \frac{12}{13}\right)$ is equal to
 (A) $\frac{1}{5}$ (B) $\frac{1}{6}$
 (C) $\frac{1}{7}$ (D) $\frac{1}{9}$
3. Two rational numbers between $\frac{11}{15}$ and $\frac{17}{20}$ is :
 (A) $\frac{3}{4}, \frac{5}{6}$ (B) $\frac{3}{5}, \frac{1}{2}$
 (C) $\frac{1}{2}, \frac{5}{7}$ (D) $\frac{5}{7}, \frac{6}{7}$
4. The measure of that angle which is four times its supplement is :
 (A) 36° (B) 144°
 (C) 155° (D) 180°
5. In $\triangle ABC$, $6 \angle A = 4 \angle B = 3 \angle C$, find the angles of $\triangle ABC$ are
 (A) $50^\circ, 60^\circ, 70^\circ$ (B) $40^\circ, 60^\circ, 80^\circ$
 (C) $40^\circ, 80^\circ, 50^\circ$ (D) $80^\circ, 60^\circ, 70^\circ$
6. Which of the following figure are not congruent.
 (A) Two squares of same perimeter
 (B) Two equilateral triangle of same perimeter
 (C) Two Regular hexagon of same perimeter
 (D) Square and an equilateral triangle of same perimeter
7. Find the value of x, if $2^x + 2^x + 2^x = 192$.
 (A) 6 (B) 5
 (C) 8 (D) 3
8. If $a + \frac{1}{a} = 2$, then $a - \frac{1}{a}$ will be :
 (A) 0 (B) 4
 (C) -2 (D) 2
9. Which of the following has the same mean, median and mode?
 (A) 6, 2, 5, 4, 3, 4, 1 (B) 4, 2, 2, 1, 3, 2, 3
 (C) 2, 3, 7, 3, 8, 3, 2 (D) 4, 3, 4, 3, 4, 6, 4
10. The probability of getting 53 Monday in a leap year is :
 (A) $1/7$ (B) 0.5
 (C) 0 (D) none of these
11. In the following diagram $\angle B : \angle C = 3 : 4$, find $\angle C$.



- (A) 90° (B) 100°
 (C) 80° (D) 60°

12. The lines of symmetry in a square are :
 (A) 2 (B) 1
 (C) 4 (D) 3
13. A bicycle wheel has diameter 1m. If the bicycle travels one kilometer, then the number of revolutions the wheel make is :
 (A) $\frac{1}{\pi}$ (B) $\frac{100}{\pi}$
 (C) $\frac{500}{\pi}$ (D) $\frac{1000}{\pi}$
14. A is 7 years older than B. After 4 years, age of B will be half of that of A. The sum of their present ages (in years) is :
 (A) 19 (B) 17
 (C) 15 (D) 13

(Space For Rough Work)

15. The ratio of Mr Johns score to Mr .Peter' s score for a test is 8 : 9 . If Mr. Peter had scored 30 marks lower, the ratio would have been 4 : 3 instead. How many marks did Mr John score?
 (A) 50 (B) 30
 (C) 80 (D) 60

16. 25% of a number is less than 18% of 650 by 19. The number is :
 (A) 392 (B) 356
 (C) 293 (D) 318

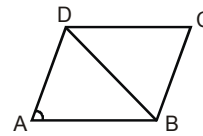
17. The selling price of a table is more than its cost price by 25%. Then the cost price is less than selling price by :
 (A) 20% (B) 75%
 (C) 80% (D) 25%

18. One more than the successor of -41 is
 (A) -38. (B) -39.
 (C) -40. (D) -41.

19. In a school $\frac{2}{7}$ of the students are boys. If there are 305 girls, find the number of boys in the school ?
 (A) 112 (B) 122
 (C) 132 (D) 127

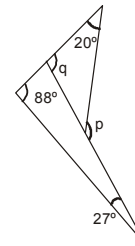
20. Find the product of
 $\left(1 - \frac{1}{6}\right)\left(1 - \frac{1}{7}\right)\left(1 - \frac{1}{8}\right) \dots \left(1 - \frac{1}{n+4}\right)\left(1 - \frac{1}{n+5}\right)$
 for $n \geq 4$.
 (A) $\frac{1}{n+5}$ (B) $\frac{5}{n+5}$
 (C) $\frac{2}{n+4}$ (D) $\frac{3}{(n+4)(n+5)}$

21. Diagonal DB of a rhombus ABCD is equal to one of its sides. The values of $\angle A$ is :



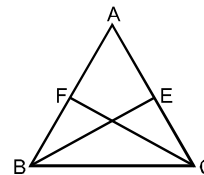
- (A) 30° (B) 60°
 (C) 120° (D) 90°

22. Find measure of p and q .



- (A) $p = 130^\circ, q = 115^\circ$
 (B) $p = 115^\circ, q = 135^\circ$
 (C) $p = 135^\circ, q = 115^\circ$
 (D) $p = 135^\circ, q = 110^\circ$

23. In the given figure, ABC is an isosceles triangle in which $AB = AC$. If E and F be the midpoints of AC and AB respectively, then BE is equal

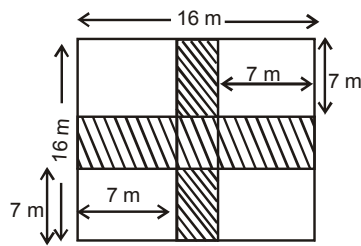


- (A) CF (B) AB
 (C) CE (D) BF

24. The value of x for which $2^{x+4} - 2^{x+2} = 3$ is
 (A) 2 (B) 3
 (C) -1 (D) None of these

(Space For Rough Work)

25. The area of the shaded region in the figure is :



- (A) 64 m^2 (B) 62 m^2
(C) 58 m^2 (D) 60 m^2
26. The instrument used to measure the volume of milk is
(A) metre scale.
(B) vernier caliper.
(C) measuring cylinder.
(D) stop watch.
27. Find the initial velocity of a car which is stopped in 10 s applying brakes. Retardation due to brakes is 250 cm/s^2 .
(A) 25 m/s (B) 250 cm/s
(C) 2.5 m/s (D) 25 cm/s
28. Human body temperature is normally :
(A) 37°C (B) 0°C
(C) 100.4°C (D) 98.6°C
29. A device which is based on reflection of sound:
(A) Mega phone or speaking tube
(B) Stethoscope
(C) Both (A) and (B)
(D) none of these
30. An electric fuse is based on the :
(A) Heating effect of current
(B) Chemical effect of current
(C) Magnetic effect of current
(D) None of these
31. Light shows :
(A) Random propagation
(B) Curvilinear propagation
(C) Rectilinear propagation
(D) None of these
32. An instrument used to study the speed of wind is called _____
(A) Manometer (B) Anemometer
(C) Ammeter (D) Speedometer
33. The body burning like a star and coming towards the earth is _____.
(A) Comet (B) Meteor
(C) Ceres (D) Satellites
34. When the switch is in the off state :
(A) the circuit from the positive terminal of the battery to the negative terminal is complete
(B) the circuit is said to be open circuit.
(C) current flows throughout the circuit instantaneously
(D) the circuit is close circuit
35. The ray of light moving from an optically rare to denser medium
(A) Bends away from the normal
(B) Bends towards the normal
(C) Remains un-deviated
(D) none of these
36. The acidic soil is not good for healthy growth of plants. This type of soil is neutralized by adding
(A) hydrochloric acid to the soil
(B) calcium oxide (CaO) to the soil
(C) sodium oxide to the soil
(D) formic acid to the soil
37. Wool is a / an
(A) fibre obtained from cocoon
(B) artificial fibre
(C) animal fibre
(D) plant fibre
38. The science of raising silk worms to obtain silk is known as -
(A) apiculture. (B) sericulture.
(C) horticulture. (D) pisciculture.
39. Process of removing wool from a sheep is called
(A) Weaving. (B) Shearing.
(C) Spinning. (D) Ginning.

(Space For Rough Work)

40. The acid present in our stomach which helps in digestion of food is :
 (A) acetic acid (B) formic acid
 (C) hydrochloric acid (D) tartaric acid
41. Pure water is -
 (A) completely neutral (B) slightly alkaline
 (C) oxygen free (D) slightly acidic
42. When magnesium oxide (MgO) react with water to form magnesium hydroxide $[Mg(OH)_2]$, a base, it turns _____ litmus to _____.
 (A) blue, red (B) blue, colourless
 (C) red, blue (D) colourless, blue
43. During rusting , the layer deposited on the surface of iron is -
 (A) FeO (B) Fe_2O_3
 (C) $Fe_2O_3 \cdot xH_2O$ (D) None of these
44. Ice floats on water because -
 (A) density of ice is higher than that of water.
 (B) density of ice is lower than that of water.
 (C) temperature of ice is lower than that of water.
 (D) temperature of water is higher than that of ice.
45. The boiling point of water on ground is $100^\circ C$. At hills it will be -
 (A) $100^\circ C$ (B) More than $100^\circ C$
 (C) Less than $100^\circ C$ (D) None of these
46. Villi are present in :
 (A) Stomach (B) Oesophagus
 (C) Large intestine (D) Small intestine
47. In mammals the body cavity is partitioned into thoracic and abdominal parts by
 (A) liver (B) lungs
 (C) ribs (D) diaphragm
48. Loss of water from the tips of leaves is called -
 (A) guttation (B) transpiration
 (C) respiration (D) bleeding
49. Fertilisation of an ovum with a sperm takes place in -
 (A) fallopian tube (B) uterus
 (C) cervix (D) vagina
50. During light reaction of photosynthesis
 (A) production of ATP occurs
 (B) production of $NADPH_2$ occurs
 (C) photolysis of water occurs
 (D) all of the above.
51. Leaves respire with the help of :
 (A) Lenticles (B) Stomata
 (C) Plasmodesmata (D) Cuticle
52. Blood leaving lungs is rich in :
 (A) Oxygen (B) Carbon dioxide
 (C) Haemoglobin (D) Number of RBC
53. Human heart is divided into :
 (A) 4 Chambers (B) 5 Chambers
 (C) 3 Chambers (D) 2 Chambers
54. Which is the correct sequence of the food chain in grassland ?
 (A) Grass → wolf → deer → buffalo
 (B) Grass → insects → bird → snake
 (C) Grass → snake → insects → deer
 (D) Grass → snake → insects → wolf
55. Proteins are the polymers of
 (A) Amino acids (B) Natural proteins
 (C) Enzymes (D) Nucleic acids
- Directions : (56)** In each of the following questions, a group of letters is given which are numbered 1, 2, 3, 4, 5 and more. They are four alternatives given containing the combinations of these numbers. Select that combination of numbers in which letters arranged accordingly to form a meaningful word.
56. **R A C E T**
1 2 3 4 5
 (A) 1, 2, 3, 4, 5 (B) 3, 1, 2, 4, 5
 (C) 5, 2, 3, 4, 1 (D) 5, 1, 2, 3, 4
- Directions : (57 to 58)** Find the missing terms :
57. 4, 7, 3, 6, 2, 5, ?
 (A) 6 (B) 5
 (C) 3 (D) 1

(Space For Rough Work)

58.

6	21	36
9	45	81
7	(?)	49
- (A) 32 (B) 28
(C) 35 (D) 56
59. What mathematical operation should come at the place of '?' in the equation $2 ? 6 - 28 \div 7 + 2 = 10$
- (A) + (B) -
(C) \times (D) \div
60. If $E = 5$ & $SAFE = 31$, then $PINK = ?$
- (A) 41 (B) 40
(C) 50 (D) 65
61. I am facing South. I turn right and walk 20 m. Then I turn right again and walk 10 m. Then I turn left and walk 10 m and then turning right and walk 20 m. Then I turn right again and walk 60 m. In which direction am I from the starting point ?
- (A) North (B) North-West
(C) East (D) North-East
62. R earns more than H but not as much as T, M earns more than R. Who earns least among them ?
- (A) H (B) R
(C) T (D) M

- Directions : (63)** Read the following information carefully and answer the questions.
- (i) Six flats on a floor in two rows, facing east and west are allotted to Q, R, S, T, U and V.
(ii) R gets east side facing and not next to T.
(iii) T and V get diagonally opposite flats.
(iv) S next to V gets a west facing flat.
(v) U gets a east facing flat.

63. Six friends L, M, N, O, P and Q are seated in a circle facing the centre. Q is between L and O. N is between P and M. P is not between O and N. O is second to the left of N. Who is between L and N ?
- (A) M (B) P
(C) O (D) N

- Directions : (64)** Read the following information and then find out the answers to the questions that follow.
- (i) Mansi, Gautami, Roza, Farida and Akshada who are teachers in a school teach different subjects.
(ii) Mansi and Gautami teach Hindi and English.
(iii) Roza and Farida teach English and Geography.
(iv) Farida and Mansi teach Maths and Hindi.
(v) Akshada and Gautami teach History and Marathi.

64. The common subject that Gautami and Roza teach is
- (A) Hindi (B) History
(C) English (D) Maths

- Directions : (65)** 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.

65. Manager : Cabin
- (A) Driver : Train (B) Captain : Desk
(C) Pilot : Cockpit (D) Servant : Hospital

66. How many parallelograms are there in the figure below ?



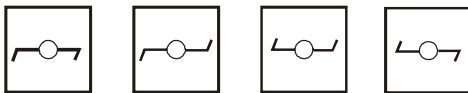
- (A) 14 (B) 15
(C) 16 (D) 18

(Space For Rough Work)

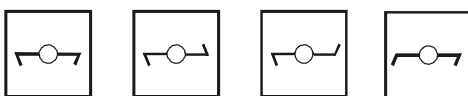
67. How many times are the hands of a clock at right angles in half day ?
 (A) 24 (B) 48
 (C) 22 (D) 44

Directions : (68) Each of the following questions consists of some problem figures. These problem figures form a series. Find out the one figure from the answer figures that will continue the series.

68. Problem Figures



Answer Figures



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

69. On the basis of two figures of dice, you have to tell that what number will be on the opposite face of number 5 ?



(i)



(ii)

- (A) 1 (B) 2
 (C) 4 (D) 6

Directions : (70) In the following questions, you have to identify the image of the item (Letter/word/ Number) in the mirror. The mirror is placed below the item. Choose the true image from the given alternatives.

- 70.

GOAL

- (A) GOAL (B) LOAG
 (C) LOVA (D) GOLA

ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	A	C	A	B	B	D	A	A	D	D	C	C	D	D	C
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	A	A	B	B	B	B	C	A	D	D	C	A	A	C	A
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	C	B	B	B	B	B	C	B	B	C	A	C	C	B	C
Ques.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	D	D	A	A	D	B	A	A	B	A	D	D	B	C	C
Ques.	61	62	63	64	65	66	67	68	69	70					
Ans.	D	A	B	C	C	D	C	D	C	C					