

Reso-NET SAMPLE TEST PAPER

FOR STUDENTS MOVING IN CLASS-IX (WISDOM) IN 2019-20

Time : 11/2 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	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

B C D

A CO D Tick mark

A X © D Cross mark

Light filled

A S C D Half filled or semi dark

A		©	D
A		©	D
A		©	D
	в	©	D

Right Filling

Fully darken with HB Pencil

Name :

_____ Roll No. : _____

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Mathematics :

- Squares & Square Roots
- Cubes & Cube Roots
- Linear equation in one variable
- Quadrilaterals
- Playing with numbers
- Algebraic expressions
- Algebraic identities
- Exponents and powers
- Percentage and its applications
- Compound interest
- Direct n inverse variations
- Visualising solid shapes
- Mensuration
- Introduction to graph
- Statistics
- Probability

Physics:

- Force
- Pressure
- Friction
- Sound wave
- Electricity
- Light
- Earthquakes
- Rain, Thunder and Lightning
- Night Sky

Chemistry :

- Synthetic fibres and plastics
- Metals and non-metals
- Coal & Petroleum
- Combustion and Flame

Biology:

- Crop production & management
- Micro-Organism friend & foe
- Conservation of plants & animals
- Cellular level of organization
- Reproduction in Animal
- Pollution of Air & Water
- Reaching the Age of Adolescence

Mental Ability :

- Number Series
- Alphabet Series
- Letter Repeating Series
- Missing term in figure
- Mathematical Operations
- Coding-Decoding
- Direction Sense
- Ranking & Ordering-Test
- Blood Relation
- Sitting Arrangement
- Puzzle Test
- Venn Diagram
- Dice Test
- Analogy & Classification
- Non Verbal Series, Analogy, Classifiction



- 1. If a and b are positive integers such that $a^{b} = 125$, then $(a - b)^{a+b-4}$ is equal to (A) 25. (B) 16. (C) 28. (D) 30.
- 2. The sum of the digit of a number $10^{n} - 1$ is 3798. The value of n is : (A) 422 (B) 431 (C) 501 (D)673
- 3. If x = 0.50, then the value of the expression

$$\begin{cases} (1+x+x^2)+\frac{x^3}{1-x} \\ (A) 4 \\ (C) 1.50 \\ (D) 14. \end{cases} is :$$

4. In the given figure, line RT is drawn parallel to SQ.If \angle QPS = 100°, \angle PQS = 40° \angle PSR = 85° and $\angle QRS = 70^{\circ}$ then $\angle QRT$ is



- (D)90°
- 5. If ABC x CBA = 65125, where A, B and C are single digits, then A + B + C = ?(A) 18 (B) 15 (D)7 (C)8
- 6. The product of $(x^2 + 3x + 5)$ and (x - 1) is. (A) $x^3 + 2x^2 + 2x - 5$ (B) $x^3 - 2x^2 + 2x - 5$ (C) $x^3 + 2x^2 - 2x - 5$ (D) $x^3 + 2x^2 - 2x + 5$ 15.
- The expression $x^2 y^2 z^2 + 2yz + x + y z$ 7. has a factor (A) x - y + z + 1(B) - x + y + z(C) x + y - z + 1(D) x - y - z + 1
- 8. If $a^x = b$, $b^y = c$ and $c^z = a$, then the value of xyz is : (A) 0 (B) 1 (C) x + y + z(D) abc

A shopkeeper fixes the marked price of a item 35% above its cost price. Then the percentage of discount allowed to gain 8% is : (A) 43% (B) 30% (C) 20% (D) 31%

9.

- 10. A certain sum of money doubles itself at a compound interest in 10 years. It becomes eight times in :
 - (A) 20 years (B) 30 years (C) 15 years (D) 13 years
- 11. A 400 m long train is running at the speed of 60 km per hour. It crosses a bridge of length 800 m in -

(A) $6\frac{2}{3}$ seconds	(B) 20 seconds
(C) 2 seconds	(D) 72 seconds

- 12. Number of vertices in a triangular prism is (A) 6. (B) 8. (C) 10. (D)4.
- 13. If a rectangular paper of length 6cm and width 3 cm is rolled to form a cylinder with height equal to the width of the paper, then its base radius is-

(A) $\frac{6}{\pi}$ cm	(B) $\frac{3}{\pi}$ cm
(C) $\frac{3}{2\pi}$ cm	(D) $\frac{9}{2\pi}$ cm

The abscissa of a point is distance of that point from :

(A) X-axis	(B) Y-axis
(C) Origin	(D) None of these

You are given the five numbers p, q, r, s, t. If the average of p and t is 7, and if the average of q, r and s is 12, what is the average of all five number? (A) 5 (B) 9 5

(71)0		(D) 0.0
(C) 10		(D) 19

If a fair coin is tossed, what is the probablity of getting a head ?

(A) $\frac{1}{2}$	(B) ¹ / ₃
(C) $\frac{1}{6}$	(D) $\frac{2}{3}$

(Space For Rough Work)

14.

16.



17.	The least perfect square 4, 5, 6, 8 is (A) 900 (C) 2500	e number divisible by 3, (B) 1200 (D) 3600	25.	males of whom 20% inhabitants, 25% are I of the females of the (A) 22.5	(B) 32.5
18.	The smallest number by divided to make it a per (A) 11. (C) 40.		26	(C) 27.5 How much force is rec (A) 10 N (C) 100 N	(D) 37.5 quired to lift mass of 100g : (B) 1 N (D) 1000 N .
19.	If $\frac{5x}{4} + \frac{6-x}{8} = \frac{6(x+3)}{3} - (A) - \frac{121}{22}$	$\frac{1}{6}$, then x = ? (B) $\frac{121}{12}$	27.	Sharper knives cut fr (A) the area of conta (B) the area of conta (C) they shine more (D) none of these	ct is more
	(C) $\frac{212}{21}$	(D) $-\frac{122}{21}$	28.	In which case friction (A) sqaure block on s (B) spherical ball in s	straight line motion
20.	If ABCD is an isosceles to . (A) ∠B	(B)∠A		(C) both (A) and (B) (D) None of these	
21.	 (C) ∠D Number of prime numb (A) 23 (C) 24 	(D) 90° ers ≤ 90 is - (B) 22 (D) 25	29.	-	ard 5.5 sec later than the stance of the flash is (ve- is 330 m/s) (B) 1815 m. (D) 300 m.
22. 23.	Solve : (x - a) (x - b) (x - c) (A) 0 (C) abc What is the value of x^2	(B) x (D) None of these	30.	When electric curr conductor it produces (A) Magnetic effect (B) Heating effect (C) Chemical effect (D) All of these	rent passes through a s :
	34 ? (A) 2500 (C) 2900	(B) 2000 (D) None of these	31.	(A) Reflection	(B) Refraction
24.	The value of 2^9 . 3^9 is				(D) None of these
	(A) ⁶ / ₈₁	(B) 6 ⁹	32.	Earthquakes are gen (A) rain (C) thunder	erally followed by : (B) after shocks (D) lightning
	(C) $\frac{2}{9}$	(D) $\frac{3}{9}$	33.	Generally lower part of (A) Positive charge. (C) Zero charge	f clouds has : (B) Negative charge. (D) Any type of charge.

(Space For Rough Work)



34.	Which planet is also (A) mercury (C) earth	known as red planet : (B) venus (D) mars	43.	produce a flame ' (A) Candle wick	
35.	(A) Glass	g is a conducting material (B) Wood (D) All of these		(B) A wick dipped (C) Charcoal (D) Camphor	a in kerosene oli
36.	(C) Copper Rayon was obtained I of	by the chemical treatment	44.	The metal that ca (A) iron. (C) sodium.	an be easily cut with a knife is (B) aluminum. (D) zinc.
	(A) plastics.(C) fruit pulp.	(B) wood pulp. (D) cloth.	45.	The resources pr nature are called	resent in unlimited quantity in
37.	Antimony and arsenic (A) metals (C) non - metals	belong to the category of - (B) metalloids (D) minerals		(A) inexhaustible (B) natural resou	natural resources. rces. atural resources.
38.	natural gas and chard (A) Wood > Bituming Charcoal (B) Wood > Bituming Natural gas.	of wood, bituminous coal, coal vary in order - ous coal > Natural gas > nous coal > Charcoal > arcoal > Bituminous coal >	46. 47.		rmful for soil because - e soil fertility ne soil pollution nutrients ganic salt.
39.	Charcoal.	tuminous coal > Wood >		(A) HIV (B) Traponema pa (C) Mycobacteriu	um tuberculosis
		is hottest least hot	48.	important so that (A) humans can (B) the balance o	nent of the environment is t:
40.	An example of natura (A) nylon. (C) rayon.	al fibre is (B) polyester. (D) cotton.	49.	(D) plants would	not become extinct hromoplast gives to a plant
41.	The best conductor o (A) silver. (C) aluminum.			is (A) red. (C) Brown	(B) yellow. (D)All of the above
42.	Coal and Petroleum a (A) fossil fuels. (C) biogas.	are also called (B) fossils. (D) natural gas.	50.	scrotal sacs for - (A) sex differentia (B) sperm develo (C) independent t	

(Space For Rough Work)



51.	Which of the following i house gas ?	s the major green	60.	Which interchange of signs will make the following equation true?			
	(A) H_2S (C) CO	(B) CO ₂ (D) H ₂		12 – 3 × 2 ÷ 18 + 6 = 9 (A) ÷, – (C) ×, –	9 (B) ÷, + (D) +, –		
52.	Zygote develops to forr (A) egg. (C) ova.	n a/an (B) embryo. (D) sperms.	61.	PROMOTION in a cer QSP 86 how will you c (A) DE 98	rtain code is written as code DEMOTION ? (B) EF 98		
53.	The animal in which int place is (A) toad. (C) fish.	ernal fertilisation takes (B) frog. (D) pigeon.	62.	due South. How far is he	(D) EG 89 e East and then 12 km e from the starting point?		
54.	Eutrophication is cause (A) water pollution (C) soil pollution	ed due to - (B) air pollution (D) noise pollution	63.	•	(B) 6 kms. (D) none of these is 18th from the right and the left. If both of them		
55.	The hormone secreted (A) melatonin (C) Growth hormone	(B) adrenaline (D) insulin		• •	Sanjana becomes 25th girls are there in the row ? (B) 41 (D) 35		
Direct	tions : (56 to 57) Find the	e missing terms :	64.		park, Vineet said, "She		
56.	2, 3, 10, 15, 26, ?, 50 (A) 32 (C) 34	(B) 33 (D) 35			grand father's only son.		
57.	T, V, Z, B, F, ? (A) G (C) K	(B) H (D) J	65.	left of B. E is on the rig on his left side. If C is the	s, A is to the immediate ght side of A who has D hird to the left of B than		
Direct	ions : (58) Which sequence at the blanks one after the given letter series ?	the other will complete		who are sitting on the t (A) C and E (C) B and C	(B) A and D (D) C and A		
58.	mq _ sqm _ qssq _ m (A) qsmsq (C) smmqq	_ ssqmm _ s (B) qmsmq (D) sqmss	Directi	Science, Maths and San distinction in English ar	A, B, C, D & E of a class four subjects English, skrit as: A and C secured and Science. B, C and E ience and Sanskrit, while		
Direct	tions : (59) Find the miss	ing terms :		A, D and E Secured di	istinction in English and		
59.	25 17 41 32 83 11 26 ? 31		66.	question.	ect alternatives for given		
	(A) 26 (C) 34	(B) 25 (D) 38		(A) A (C) C	(B) E (D) D		
		(Space For I	Rough V	Vork)			



- Direction: (67) Which of the Venn diagrams given in the alternatives best represents the relation between the given items?
- 67. Mothers, Engineers, Females



68. Three positions of the same dice are given below. Observe the figures carefully and tell which number will appear on the face opposite the number 1?



69. 'Eye' is related to 'See' in the same way as 'Ear' is related to-(

(A) Ring	(B) Sound
(C) Hear	(D) Smell

Directions : (70) In the following question, some figures are given in a sequence. Find out the figure from the alternatives, which will come in place of the question mark to continue the sequence.

70.



ANSWER KEY

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