

Time : 1½ Hr.

SAMPLE TEST PAPER

Max. Marks : 210

**GENERAL INSTRUCTIONS**

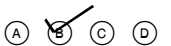





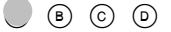
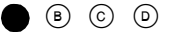
1. Question paper contains 70 questions of Mathematics (1 to 25), Physics (26 to 35), Chemistry (36 to 45), Biology (46 to 55) & Mental Ability (56 to 70), each question carry 3 mark.
2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form 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.
9. Any correction/objection in Answer Key will be accepted/entertained within 24 hrs. of exam conduction. No correction/objection will be accepted after the time.

**MARKING CRITERIA**

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

**IMPORTANT**

**PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET**

Wrong Filling	Right Filling
 Tick mark	 Fully darken with HB Pencil
 Cross mark	 Fully darken with HB Pencil
 Half filled or semi dark	 Fully darken with HB Pencil
 Light filled	 Fully darken with HB Pencil

Name : \_\_\_\_\_ Roll No. : \_\_\_\_\_

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# Syllabus of Reso NET

## FOR STUDENTS STUDYING IN CLASS-VI IN 2017-18

### Mathematics :

- ❖ Knowing Our Number
- ❖ Whole Numbers
- ❖ Playing With Numbers
- ❖ Integers
- ❖ Fractions
- ❖ Decimals
- ❖ Introduction to Algebra
- ❖ Ratio and proportion
- ❖ Basic Geometrical Ideas
- ❖ Understanding Elementary Shapes
- ❖ Symmetry
- ❖ Practical geometry
- ❖ Mensuration
- ❖ Data handling

### Physics :

- ❖ Motion & Measurement of Distance
- ❖ Force, Work, Energy
- ❖ Simple Machine
- ❖ Electricity & Circuit
- ❖ Light
- ❖ Fun with Magnetism
- ❖ Universe

### Chemistry :

- ❖ Matter & Its Segregation
- ❖ Materials of Daily Use Clothes
- ❖ Classification & diversity in matter
- ❖ World of Changes
- ❖ Importance of Air
- ❖ Water precious Resource

### Biology :

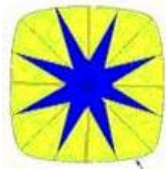

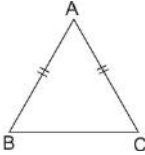
- ❖ Getting to Know Plants
- ❖ Food
- ❖ Living Organisms & Their Surrounding
- ❖ Body Movement
- ❖ Garbage in garbage out

### Mental Ability :

- ❖ Alphabet Test
- ❖ Number Series
- ❖ Alphabet Series
- ❖ Missing term in figure
- ❖ Mathematical operations
- ❖ Coding-Decoding
- ❖ Direction Sense
- ❖ Puzzle Test
- ❖ Analogy
- ❖ Classification
- ❖ Non-Verbal Series
- ❖ Non-Verbal Analogy
- ❖ Calendar
- ❖ Water Mirror Image
- ❖ Puzzle Test

1. Express five hundred three million eight thousand seven hundred two in figures:  
 (A) 500380702 (B) 503800702  
 (C) 503008702 (D) 503080702
2. I as a Roman numeral, am CMXCIX. Break me up and then can you recognise me ?  
 (A) 9910 (B) 999  
 (C) 1109 (D) 1119
3. What will be the total cost of 3kg bananas, 2kg oranges and  $\frac{1}{2}$ kg papaya, if the cost of bananas is 30 Rs/kg, oranges is 40 Rs/kg and papayas is 20 Rs/kg?  
 (A) 180 (B) 190  
 (C) 200 (D) 210
4.  $6 \times (7 \times 3) = (6 \times 7) \times 3$  is an example of  
 (A) Associative Property  
 (B) Closure Property  
 (C) Commutative Property  
 (D) Distributive Property
5. The correct option is  
 (A) All natural numbers are whole numbers.  
 (B) Successor of a two digit number is always a two digit number.  
 (C) Zero is the smallest natural number.  
 (D) 1 is the smallest whole number.
6. The two numbers which have only 1 as their common factor are called  
 (A) co-primes. (B) twin primes.  
 (C) composites. (D) integers.
7. Which of the following number is divisible by 6?  
 (A) 12930 (B) 12935  
 (C) 12933 (D) 12932
8. The value of  $|7 - 8| \times |3 - 3|$   
 (A) 1. (B) 0.  
 (C) -1 (D) None of these
9. Tarun reads 25 pages of a book containing 100 pages. Neha reads  $\frac{3}{4}$  pages of the same book. Then Neha reads :  
 (A) 25 pages. (B) 50 pages.  
 (C) 75 pages. (D) 100 pages.
10. Equivalent fraction of  $\frac{13}{18}$  with denominator 162 is  
 (A)  $\frac{117}{162}$  (B)  $\frac{107}{162}$   
 (C)  $\frac{94}{162}$  (D)  $\frac{69}{162}$
11. Ritu's school is at a distance of 6 km 530 m from her home. She traveled 1 km 70 m by foot and rest by bus. How much distance did she covered by bus?  
 (A) 8.460 km (B) 7.500 km  
 (C) 6.490 km (D) 5.460 km
12. 3 kg 57 g can be expressed in grams as  
 (A) 30057. (B) 3057.  
 (C) 3570. (D) 3050
13. The area of a rectangle is given by the product of its length and breadth. The breadth of a rectangle is two third of its length. If its length is x cm, then its area will be  
 (A)  $x^2$  cm<sup>2</sup>. (B)  $\frac{2}{3}x$  cm<sup>2</sup>  
 (C)  $\frac{2}{3}x^2$  cm<sup>2</sup> (D)  $\left(\frac{2}{3}x + x\right)$  cm<sup>2</sup>
14. If the sum of twice a number and 15 is 75, then the number is  
 (A) 40 (B) 30  
 (C) 20 (D) 10
15. The sum of  $[(-101) - (29) + (-33) - (-84) + (68)]$  is  
 (A) -315 (B) -11  
 (C) +11 (D) +315
16. If John covers x centimetres in one step, then 9 steps covers in  
 (A) 9x centimetres.  
 (B)  $(9 + x)$  centimetres.  
 (C)  $(9 - x)$  centimetres.  
 (D)  $(9/x)$  centimetres.
17. If the angles of a triangle are in the ratio of 6: 5: 4, then the measure of each angle of a triangle will be  
 (A) 70°, 60° and 50° (B) 72°, 60° and 48°  
 (C) 72°, 62° and 46° (D) 75°, 65° and 40°

(Space For Rough Work)

18. The ratio of 200ml to 3 litres is  
 (A) 3 : 20. (B) 1 : 15.  
 (C) 3 : 17. (D) 200 : 3
19. The ratio of two numbers is 3:8 and their difference is 115, then the smaller of the two number is  
 (A) 59. (B) 69.  
 (C) 184. (D) 194.
20. Number of equivalent fractions of a given fraction may be  
 (A) One. (B) Two.  
 (C) Five. (D) Infinite.
21. The mean proportion between 9 and 25 is  
 (A) 15. (B) 25.  
 (C) 30. (D) 225.
22. The number of lines of symmetry for the following figure is  
  
 (A) four. (B) six.  
 (C) eight. (D) twelve.
23. Line of symmetry of the given figure is  
  
 (A) one. (B) two.  
 (C) three. (D) four.
24. An isosceles triangle has  
  
 (A) one line symmetry.  
 (B) two lines symmetry.  
 (C) three lines symmetry.  
 (D) four lines symmetry.
25. Find the perimeter of an isosceles triangle with equal sides 8 cm each and third side is 6cm.  
 (A) 25 cm (B) 18 cm  
 (C) 20 cm (D) 22 cm
26. Speed can be defined as the distance travelled by a moving object :  
 (A) per unit time.  
 (B) in any time.  
 (C) by light.  
 (D) multiplied by the time taken
27. Speed of 90 km/h when expressed in m/s is :  
 (A) 2. (B) 2  
 (C) 25 (D) 2500
28. Some examples of magnetic substances are  
 (A) zinc, copper, nickel.  
 (B) iron, cobalt, nickel.  
 (C) copper, silver, gold.  
 (D) iron, mercury, chromium.
29. Sunlight consists of :  
 (A) Black colour only. (B) Five colours.  
 (C) Seven colours. (D) Blue colour.
30. The energy stored in food is called :  
 (A) electrical energy. (B) heat energy.  
 (C) chemical energy. (D) muscular energy.
31. The bulb gets fused when :  
 (A) It becomes milky.  
 (B) The filament breaks.  
 (C) The glass breaks.  
 (D) The bulb becomes too old.
32. The shape of the Milky Way Galaxy is :  
 (A) Spherical (B) Elliptical.  
 (C) Spiral (D) Circular.
33. When a ray of light is incident normally on a rigid opaque surface, the angle of reflection is  
 (A)  $0^\circ$  (B)  $30^\circ$   
 (C)  $60^\circ$  (D)  $90^\circ$
34. A ray of light striking the surface of a mirror is called :  
 (A) a reflected ray. (B) an incident ray.  
 (C) a normal ray. (D) a transmitted ray.


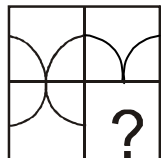









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(Space For Rough Work)

35. Car A is moving faster than car B. It means that  
 (A) car A covers less distance than car B in given time.  
 (B) car B covers more distance than car A in given time.  
 (C) car A and car B, both covers equal distance in given time.  
 (D) car A covers more distance than car B in given time.
36. The components of brass are :  
 (A) Copper and zinc  
 (B) Calcium and iron  
 (C) Carbon, hydrogen and oxygen  
 (D) Carbon and sulphur
37. The substance which does not sublime on heating is -  
 (A) potassium chloride  
 (B) ammonium chloride  
 (C) iodine  
 (D) solid CO<sub>2</sub>
38. A glass containing muddy water is left undisturbed. After sometime the particles of mud settle at the bottom. This is called :  
 (A) decantation. (B) filtration.  
 (C) sedimentation. (D) evaporation.
39. Flax is a type of :  
 (A) animal. (B) plastic.  
 (C) plant. (D) fabric.
40. Cotton is a :  
 (A) cellulose fibre (B) protein fibre  
 (C) fat fibre (D) mineral fibre
41. Unspun cotton is used for :  
 (A) making carpets. (B) making bedsheets.  
 (C) filling mattress. (D) making fabrics.
42. The instrument that measures the density of liquids is :  
 (A) hydrometer. (B) hygrometer.  
 (C) density meter. (D) ammeter.
43. Pure water is :  
 (A) good conductor of electricity.  
 (B) poor conductor of electricity.  
 (C) semiconductor.  
 (D) superconductor.
44. The formation of cloud is a :  
 (A) physical change. (B) chemical change.  
 (C) biological change. (D) social change.
45. The process of rusting is slowest in the presence of  
 (A) distilled water. (B) sea water.  
 (C) river water. (D) rain water.
46. After photosynthesis, carbohydrates in plant ultimately get converted into :  
 (A) starch. (B) glycogen  
 (C) glucose. (D) carbon dioxide
47. An exceptional group with respect to its mode of nutrition is that of :  
 (A) phytoplankton. (B) cyanobacteria.  
 (C) fungi (D) cactus
48. The process by which autotrophs make their food is known as :  
 (A) respiration. (B) photosynthesis.  
 (C) chemosynthesis. (D) digestion.
49. The organic molecules produced directly by photosynthesis are :  
 (A) DNA. (B) amino acids.  
 (C) sugars. (D) lipids.
50. The hardest part of a tooth is the :  
 (A) dentine. (B) enamel.  
 (C) pulp. (D) gum.
51. The organ which does not secrete any enzymes for the digestion of food is :  
 (A) pancreas. (B) stomach.  
 (C) kidneys. (D) small intestine.
52. Humans develop :  
 (A) two sets of teeth during their lifetime.  
 (B) one set of teeth which lasts for a lifetime.  
 (C) a total of twenty four teeth.  
 (D) a total of sixteen teeth.

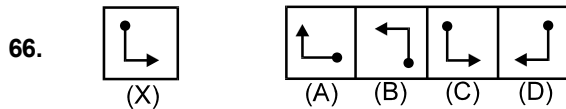
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(Space For Rough Work)

53. Food moves in the alimentary canal from one region to another by a process called :  
 (A) locomotion. (B) pumping.  
 (C) peristalsis. (D) diastole.
54. Cellular respiration takes place in the cells of human beings to produce :  
 (A) alcohol and energy.  
 (B) carbon dioxide and energy.  
 (C) alcohol and carbon dioxide.  
 (D) oxygen and energy.
55. The process in which the air rich in carbon-dioxide is given out is :  
 (A) transpiration (B) exhalation  
 (C) inhalation (D) egestion
- Directions (56 to 58) :** Find the missing terms :
56. 2, 5, 10, 17, ?  
 (A) 25 (B) 26  
 (C) 22 (D) 24
57. 2B, 4C, 8E, 14H, ?  
 (A) 22L (B) 24L  
 (C) 22K (D) 22M
58.   
 (A) 36 (B) 117  
 (C) 32 (D) 26
59. If **RIDER** is coded as **SJEFS** then **MOHIT** will be coded as :  
 (A) NPKJU (B) NPIJV  
 (C) NPIJU (D) NQIJU
60. **Student** is called **Saint**, **Saint** is called **Thief**, **Thief** is called **Politician**, **Politician** is called **Duffer**, **Duffer** is called **Head**, then tell who does the job of robbery during day and night ?  
 (A) Saint (B) Thief  
 (C) Duffer (D) Politician
61. 'Sports' is related to 'Logo' in the same way as 'Nation' is related to  
 (A) Emblem (B) Animal  
 (C) Ruler (D) Anthem
62. Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group ?  
 (A) Banana (B) Apple  
 (C) Orange (D) Carrot
- Direction : (63)** Select a figure from the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.
63.   
 (A)  (B)  (C)  (D) 
- Direction : (64)** In the following question, choose the correct mirror image from alternatives A, B, C, and D of the figure (X).
64.  (X)  (A)  (B)  (C)  (D)
65. If **REASON** is coded as 5 and **BELIEVED** as 7, what is the code number for **GOVERNMENT** ?  
 (A) 6 (B) 9  
 (C) 8 (D) 10

(Space For Rough Work)

**Direction : (66)** In the following questions, choose the alternative figure in which the question figure (X) is embedded.



67. In a certain code, **VIJAY** is written as **YAJIV**. How is **SUDHA** written in code?

- (A) AHDUS (B) AHUSD  
(C) ADUSH (D) DUSHA

68. Anil is son of Suman but Suman is not a father of Anil. So what is the relation between them ?

- (A) Son-Father  
(B) Uncle-nephew  
(C) Mother-Son  
(D) Grandfather-Grandson

**Directions : (69)** In each of the following questions, find which one word can be made from the letters of the given word.

69. **MEASUREMENT**

- (A) ASSURE (B) MANTLE  
(C) SUMMIT (D) MASTER

70. How many **5's** are there in the following sequence which are immediately followed by **3** but not immediately preceded by **7** ?

**8 9 5 3 2 5 3 8 5 5 6 8 7 3 3 5 7 7 5 3 6 5 3 3 5 7 3 8**

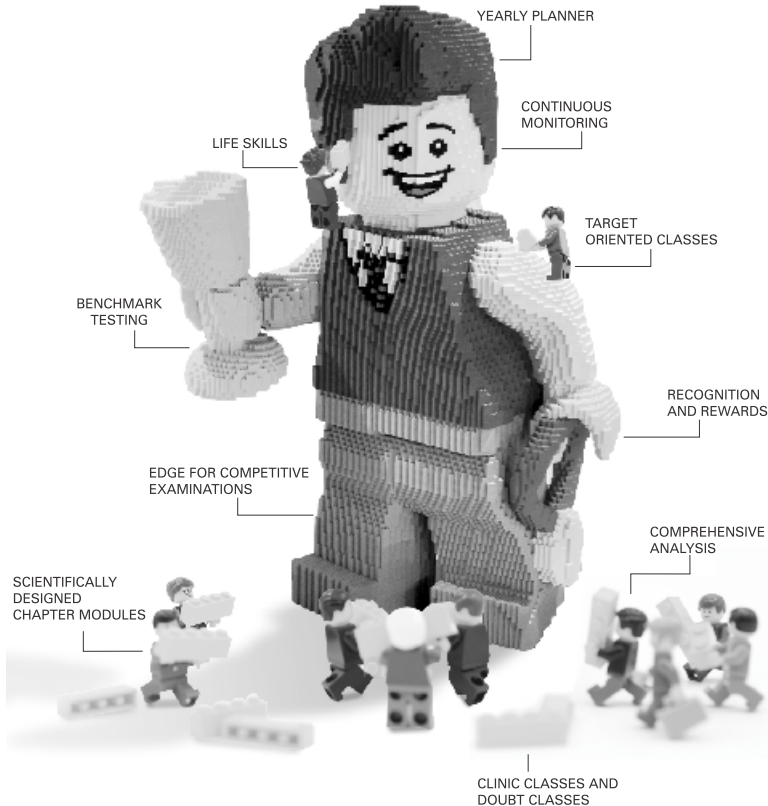
- (A) One (B) Two  
(C) Three (D) Four

## ANSWER KEY

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

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Test Dates: 18<sup>th</sup> & 25<sup>th</sup> Mar | 1<sup>st</sup> Apr 2018

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