

Reso-NET
Resonance National Entrance Test
ACADEMIC SESSION : 2018-19
FOR STUDENTS MOVING TO CLASS-V

Time : 1½ Hr.

SAMPLE TEST PAPER

Max. Marks : 210

GENERAL INSTRUCTIONS

- 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.
- Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
- Write your Name and Roll No. in the space provided in the bottom of this booklet.
- Before answering the paper, fill up the required details in the blank space provided in the answer sheet.
- Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
- There is no negative marks for wrong answer.
- 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.
- In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.
- 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)	NO NEGATIVE MARKS	0




IMPORTANT

PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET

Wrong Filling

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

Right Filling

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

Name : _____ Roll No. : _____

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Syllabus of Reso NET

FOR STUDENTS STUDYING IN CLASS-IV IN 2017-18

Mathematics :

- ❖ Knowing our Number
- ❖ Operation on Large Numbers
- ❖ Addition and Subtraction
- ❖ Multiplication and Division
- ❖ Factors and Multiples
- ❖ Fractions
- ❖ Decimals
- ❖ Time
- ❖ Money
- ❖ Measurement
- ❖ Geometry
- ❖ Perimeter and Area

Mental Ability :

- ❖ Alphabet Test
- ❖ Number series
- ❖ Alphabet Series
- ❖ Missing Term in Figure
- ❖ Mathematical Operations
- ❖ Direction Sense
- ❖ Analogy
- ❖ Classification
- ❖ Water Mirror Image
- ❖ Figure Completion

Physics :

- ❖ Force, Work & Energy
- ❖ Our Universe
- ❖ Measurement

Chemistry :

- ❖ Matter and Materials
- ❖ Clothes
- ❖ Air, Water & Weather

Biology :

- ❖ Living Things and Our Body
- ❖ Food
- ❖ Safety and First Aid
- ❖ Natural Resources

1. Use 3, 4, 6, 0, 9, 8 to write the smallest and greatest number you can form. Use each digit only once. The number should not start with 0.
(A) 304689, 986430 (B) 340689, 986430
(C) 304689, 968430 (D) 304689, 986340
2. Find the greatest number in given group.
123321123, 132231132, 213312213, 321123321
(A) 123321123 (B) 132231132
(C) 213312213 (D) 321123321
3. What is DIX ?
(A) 509 (B) 419
(C) 499 (D) 699
4. Solve : $3\frac{2}{3} \times \frac{5}{6} + \frac{2}{7} - \frac{5}{9}$
(A) $\frac{11}{14}$ (B) $2\frac{11}{14}$
(C) $2\frac{14}{11}$ (D) $\frac{14}{11}$
5. The correct sequence in descending order is :
(A) $0 > 1 > 2$. (B) $0 > -1 > 1$.
(C) $-1 > 1 > 2$. (D) $2 > -2 > -3$.
6. The number which comes after the smallest 4-digit number is :
(A) 9998 (B) 1001
(C) 1100 (D) 999
7. 52, 73, 62, 391, has _____ crores.
(A) 52 (B) 73
(C) 39 (D) 5
8. C C C stands for _
(A) 300 (B) 1000
(C) 3000 (D) 1000
9. Prime factors of 30 are ____
(A) 2, 2, 3 (B) 5, 2, 3
(C) 3, 5 (D) 3, 5, 10
10. What value for z makes this number sentence true ? $9 \times 47 = (9) (40) + (9) (z)$
(A) 7 (B) 8
(C) 30 (D) 37
11. Monika takes $\frac{1}{6}$ hour to walk to the playground and $\frac{1}{3}$ hour to walk from the play ground to school. How much time does it take her to walk to the playground and then to school?
(A) $\frac{2}{9}$ hour (B) $\frac{1}{3}$ hour
(C) $\frac{1}{2}$ hour (D) $\frac{2}{3}$ hour
12. How many Rs. 50 will make Rs. 1000 ?
(A) 2 (B) 20
(C) 200 (D) 100
13. A tree is 20 m tall. A flag pole is $\frac{3}{5}$ as tall as the tree. What is their total height ?
(A) 9 m (B) $14\frac{2}{5}$
(C) $20\frac{3}{5}$ m (D) 32 m
14. How many prime number is even number :
(A) 1 (B) 2
(C) 3 (D) None
15. The decimal form of $5\frac{3}{8}$ is
(A) 5.375 (B) 5.000
(C) 5.255 (D) 2.325
16. The difference between 7000 and 3753 is
(A) 3247 (B) 3357
(C) 3257 (D) 4247
17. A school needs 1500 pencils in a year. How many boxes of 30 pencils each, must the school buy ?
(A) 50 (B) 500
(C) 300 (D) 450
18. The prime factorisation of 24 is :
(A) $2 \times 3 \times 4$ (B) 6×4
(C) 8×3 (D) $2 \times 2 \times 2 \times 3$
19. Product of the place value of 8 and 3 in the number 82375 is _____
(A) 24,000,000 (B) 24,000
(C) 24,00,000 (D) 80300

Space For Rough Work

20. Mrs. Roy bought a carpet 15 m long and 12 m broad. What is its perimeter ?
 (A) 54 m (B) 64 m
 (C) 55 m (D) 23 m
21. What will you do to convert kilogram to gram ?
 (A) multiply by 1000 (B) divided by 1000
 (C) multiply by 10 (D) divided by 10
22. The perimeter of a square ABCD is –
 (A) sum of its sides
 (B) $4 \times \text{side}$
 (C) $AB + BC + CD + DA$
 (D) all of these
23. Side of a square garden is 56 m long. How much wire is needed for fencing around it three times?
 (A) 440 m (B) 448 m
 (C) 520 m (D) 672 m
24. 4.6 lies in between which two whole numbers ?
 (A) 0 – 1 (B) 5 – 6
 (C) 4 – 5 (D) 10 – 11
25. Choose the appropriate sign :
 $2.222 \text{ } \underline{\hspace{1cm}} \text{ } 2.231$
 (A) > (B) <
 (C) = (D) None of these
28. The closest neighbor of the earth in space is:
 (A) sun (B) Jupiter
 (C) moon (D) mars
29. The first artificial satellite launched by India in 1975 was:
 (A) Sputnik I (B) Aryabhata
 (C) Charaka (D) Insat
30. An eclipse of the moon is called:
 (A) lunar eclipse (B) solar eclipse
 (C) earth eclipse (D) all of these
31. The scientist who studies the origin, structure and composition of the earth is called -
 (A) Geologist (B) Meteorologist
 (C) Astrologist (D) Botanist
32. Sunlight consists of :
 (A) black colour only. (B) five colours.
 (C) seven colours. (D) blue colour.
33. Atmospheric pressure is measured by :
 (A) manometer. (B) thermometer.
 (C) barometer. (D) speedometer

PART-II SCIENCE (P,C,B)

Straight Objective Type

This section contains 10 single choice questions. Each question has choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

26. The planet that is also known as a 'morning star' is
 (A) Venus. (B) Mercury.
 (C) Pluto. (D) Neptune.
27. Motion of a bus moving on a straight road is :
 (A) rectilinear motion.
 (B) circular motion.
 (C) oscillatory motion.
 (D) parabolic motion.
34. Parsec is the unit of :
 (A) Distance (B) Mass
 (C) Time (D) Pressure
35. The first artificial satellite was :
 (A) Rohini (B) Insat B
 (C) Sputnik-1 (D) Bhaskara
36. The content of water vapour in air:-
 (A) varies
 (B) does not vary
 (C) is more as we go up from earth's surface
 (D) None of the above
37. Global warming is caused when air has in excess :
 (A) oxygen (B) water
 (C) carbon-di-oxide (D) NO_2

Space For Rough Work

38. The smell of perfume spreads out by a process known as -
 (A) evaporation (B) diffusion
 (C) condensation (D) fusion
39. Polluted water causes diseases like -
 (A) Cholera (B) Typhoid
 (C) Dysentery (D) All
40. Soil erosion can be prevented by
 (A) strip farming (B) crop rotation
 (C) deforestation (D) both (A) and (B)
41. Which of the following is not soluble in water ?
 (A) Sugar (B) Sand
 (C) Alcohol (D) Common salt
42. The solid which dissolved in a liquid is called
 (A) Solute (B) Solvent
 (C) Solution (D) None of these
43. Common salt can be obtained from sea water by the process of :
 (A) Filtration (B) Sedimentation
 (C) Evaporation (D) All of these
44. Molecules are made up of -
 (A) neutron (B) protons
 (C) electrons (D) atoms
45. Intermolecular space is _____ in solid :
 (A) Maximum (B) Moderate
 (C) Minimum (D) Can't say
46. Which of the following is not an aquatic plant ?
 (A) Duckweed (B) Lotus
 (C) Venus fly trap (D) Hydrilla
47. Which of the following is not an arboreal animal?
 (A) monkey (B) rabbit
 (C) chameleon (D) tree lizard
48. The green colour of the leaves is due to the presence of :
 (A) Stomata (B) Main vein
 (C) chlorophyll (D) Photosynthesis
49. Crops are protected from pests and insects by
 (A) water (B) pesticides
 (C) air (D) proper manuring
50. Kanha National Park is in
 (A) Uttar Pradesh (B) Bihar
 (C) Assam (D) Madhya Pradesh
51. Which of the following is not a correct method of food preservation ?
 (A) boiling
 (B) storing at low temperature
 (C) storing in open containers
 (D) storing in sugar syrup
52. Loss of excess water and salts from body is called
 (A) preservation (B) rehydration
 (C) dehydration (D) fermentation
53. The sticky layer of germs on teeth is called
 (A) plaque (B) stack
 (C) crown (D) enamel
54. Which of the following is non-green plant ?
 (A) Pine (B) Babul
 (C) Coleus (D) Mould
55. Plants which trap and eat insects are called
 (A) aquatic plants (B) mangrove plants
 (C) insectivorous plants (D) None of these
- Directions : (56 to 58) Find the missing Term :**
56. 7, 14, ?, 28, 35
 (A) 17 (B) 19
 (C) 21 (D) 24
57. 0, 6, 24, 60, ?
 (A) 90 (B) 105
 (C) 115 (D) 120

Space For Rough Work

58. $\begin{matrix} 8 \\ 4 \text{ (25) } 6 \\ 7 \end{matrix}$ $\begin{matrix} 12 \\ 18 \text{ (49) } 9 \\ 10 \end{matrix}$ $\begin{matrix} 11 \\ 13 \text{ (36) } ? \\ 7 \end{matrix}$
- (A) 9 (B) 8
(C) 5 (D) 6

Direction : In question number 59 to 60, you have been given mathematical expressions where + means \div , - means \times , ? means + and # means -. Simplify the expression and find the value in each case.

59. $6 - 3 + 1 ? 2 \# 7$
(A) 9 (B) 13
(C) 15 (D) 19
60. $12 + 4 - 3 \# 4 ? 2$
(A) 0 (B) 3
(C) 4 (D) 7
61. How many \div comes before - and after + in the following series ?
+ - \div + \times \times + \div - + - + - + \div - + \div \times - +
- \div +
(A) 0 (B) 1
(C) 2 (D) 3
62. Which number box shows the maximum value ?

$100 + 1$	$100 - 4$	$100 + 4$	$250 + 40$
P	Q	R	S
(A) P	(B) Q	(C) R	(D) S

Directions : (63) In each of the following questions, there are four choices. Three of them are alike and form a group, while one of them is different. Find the odd-man-out as directed.

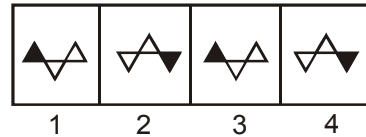
63. (A) Wood (B) Brick
(C) Cement (D) Lime

Directions : (64) Find the mirror image.

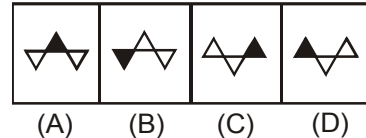
64. C E
(A) E C (B) E C
(C) E C (D) E C

Direction : (65) In the following question, series of figures are given. Find the correct alternative to continue the series.

65. Problem Figures



Answer Figures



Directions : (66 & 67) Find the word / group / numbers which is different from the others.

66. (A) Mercury (B) Venus
(C) Earth (D) Moon
67. AB, BA, CD, DC, EF, ?
(A) FE (B) FG
(C) GF (D) HG

Direction (68) Find the letter which will end the first word and start the second word.

68. CAME ? IGH

- (A) R (B) L
(C) P (D) K

69. Which is the 12th letter of the alphabetical series ?

- (A) K (B) L
(C) M (D) N

70. If **Horse** is related to **stable**, then **Lion** is related to

- (A) Small Bridge (B) Hill
(C) Den (D) pond

ANSWER KEY

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