

#TAYAARI HI JEET HAI



SCORE

Sri Chaitanya **Outstanding Achiever Reward Examination**

6th OCTOBER 2024

For Class **5th, 6th, 7th, 8th, 9th & 10th**

PREVIOUS YEAR PAPER

CLASS 5th



Sri Chaitanya

MATHS

SECTION 1 (Maximum Marks: 90)

- This section contains **THIRTY** questions.
- Each question has **FOUR** options (a), (b), (c) and (d). **ONLY ONE** of these four options is correct.
- For each question, darken the bubble corresponding to the correct option in the ORS.
- For each question, marks will be awarded in one of the following categories:
Full Marks : +3 If only the bubble corresponding to the correct option is darkened.
Zero Marks : 0, In all other cases

1. Order the numbers from least to greatest and choose the appropriate option.

1·98, 1·809, 1·098, 0·981

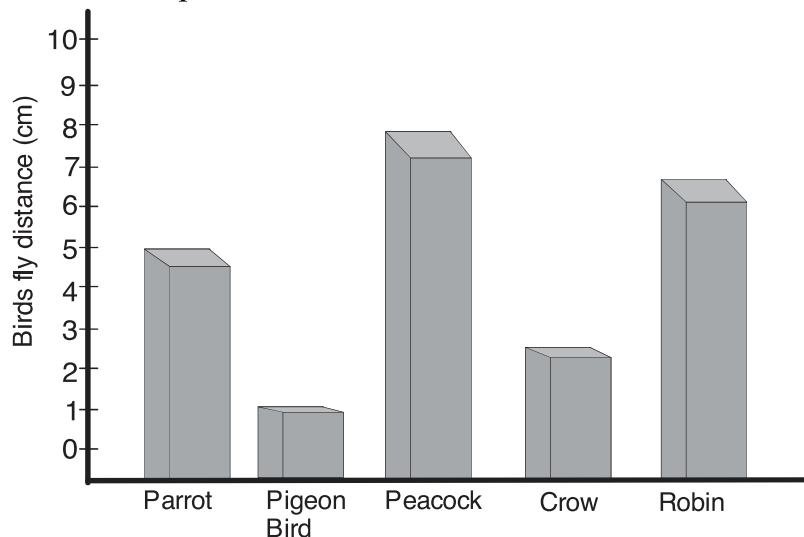
A) 1·809, 0·098, 1·98, 0·981

B) 0·981, 1·098, 1·98, 1·809

C) 0·981, 1·098, 1·809, 1·98

D) 1·98, 1·809, 1·098, 0·981

2. David the bird keeper measured how far each of his 10 birds can fly



Which bird flew farther than Parrot but not as far as Peacock?

A) Pigeon

B) Robin

C) Crow

D) Parrot

3. Tarush, INMO 2017, AIR-1 made two 3-digit numbers from the digits 2, 4, 5, 6, 8, 9. Each of these digits was used only once. Afterwards he added the numbers together.

What is the largest answer that he could have got?

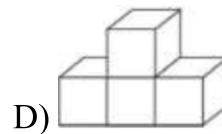
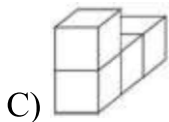
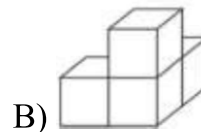
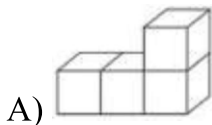
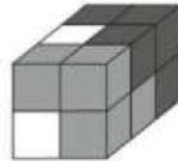
A) 1940

B) 1528

C) 1789

D) 1816

4. Select the incorrect match
 A) Thirty seven lakh three hundred \rightarrow 3700300
 B) Fifty lakh nine hundred five \rightarrow 5009005
 C) Two crore twenty lakh eighty thousand ten \rightarrow 22080010
 D) Four crore eighty lakh one fifty six \rightarrow 48000156
5. Sarvesh Mehtani, IIT-JEE AIR-1, 2017, needs 3 pieces to build this shape. Each piece is made out of 4, equally sized cubes of the same colour as shown here. What is the shape of the white piece?



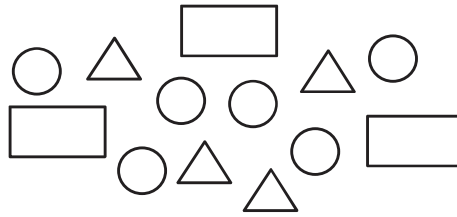
6. On a farming field, 4 men or 5 women can complete a task in 82 days. How many days will it take to complete the task by 5 men & 4 women?
 A) 39 days
 B) 38 days
 C) 40 days
 D) 41 days
7. Harsh Taya, a student of IIT Delhi CSE, thought of a number. He multiplied this number with itself, added 1, multiplied the result by 10, added 3 and multiplied the total by 4. He arrived at 6812. Which number had Harsh thought of to start with?
 A) 11
 B) 13
 C) 14
 D) 15
8. A factory manufactures 2530900 pens in a month. The factory got a order to fill 17608 cartons with 144 pens each. How many more pens should it manufacture to complete order?
 A) 4260
 B) 4652
 C) 3421
 D) 5625

9. Gunveen has placed numbers in two of the nine cells (see diagram). She wants to place the numbers 1, 2, 3 in every row and every column exactly once. How big is the sum of the two numbers in the grey cells?

1		
	2	

- A) 2
B) 3
C) 4
D) 5
10. In a magic garden of Jkakas Land there are magic trees. On each tree there are either 6 pears and 3 apples or 8 pears and 4 apples. In total there are 25 apples on the magic trees. How many pears in total are hanging on the magic trees altogether?
A) 56
B) 48
C) 45
D) 50
11. The area of rectangular field is 6597m^2 and its length is 36 m. A boy runs around the field. How much distance will he cover in 10 rounds?
A) 4375 m
B) 4395 m
C) 4385 m
D) None of these
12. Anandi, Bikrom, Chaitanya and Duggu were born in the same year. Their birthdays are on the 20th February, 12th April, 12th May and 25th May, but not necessarily in that order. Bikrom and Anandi were born in the same month. Anandi and Chaitanya were born on the same day in different months. Who is the oldest?
A) Anandi
B) Bikrom
C) Chaitanya
D) Duggu
13. Let a be a natural number and p be a prime number such that p divides a^2 . Then which one of the following is INCORRECT?
A) p divides a
B) p divides a^3
C) p doesn't divide a
D) p divides a^p
14. There are 20 girls and boys in total in a class. Always two students share a desk so that one third of the boys share a table with a girl and half the girls share a desk with a boy. How many boys are in this class?
A) 9
B) 12
C) 15
D) 16
15. The base of a triangle whose area is 65 cm^2 and whose altitude is 13 cm is
A) 10 cm
B) 5 cm
C) 15 cm
D) None of these

16. The ratio of 30 g to 3 kg is
 A) 10 : 1
 B) 1 : 100
 C) 100 : 3
 D) None of these
17. What is the ratio of number of circles to number of triangles in the following picture?



- A) 2 : 1
 B) 3 : 2
 C) 1 : 1
 D) 4 : 6
18. A shirt costs Rs. 180. The sales tax is 9%. How much the shirt will cost altogether, including the sales tax?
 A) Rs. 196
 B) Rs. 189
 C) Rs. 196.2
 D) Rs. 216.5
19. A number is written into every square of a 4×4 table. Tarushi is looking for the 2×2 table where the sum of the four numbers is greatest. How big is this sum?

1	2	1	3
4	1	1	2
1	7	3	2
2	1	3	1

- A) 15
 B) 12
 C) 13
 D) 14
20. Three Roman numerals A, B and C each having V only once in the place shown. Other two Roman numerals are either I or X or both

A =

v		
---	--	--

 B =

	v	
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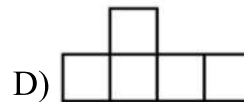
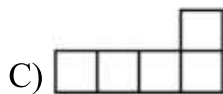
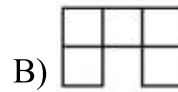
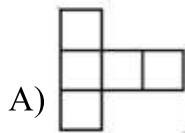
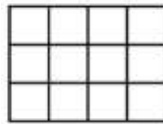
 C =

		v
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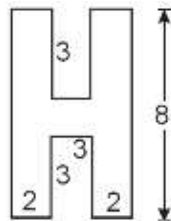
Which of the following statement is true

- A) The smallest number is A
 B) Difference between A & B is 8
 C) B & C represent same numbers
 D) None of these

21. Vaasu wants to cut out two identical pieces out of the 4×3 grid. For which of the following shapes can he not achieve that? (There may be some leftover pieces for each case)



22. What distance in meter will a train cover in 1 minute travelling at 72 km/hr
 A) 120 m
 B) 1200 m
 C) 1400 m
 D) 720 m
23. The scale of a map is 1:4000000. What is the actual distance between the two towns if they are 5 cm apart on the map.
 A) 100 km
 B) 200 km
 C) 2000 km
 D) 400 km
24. Find the perimeter of the given figure.



- A) 42 cm
 B) 48 cm
 C) 45 cm
 D) 40 cm
25. Priya drove from Mumbai to Goa as per the time shown in the clocks. For how long did she drive?



Left Mumbai



Arrived Goa

- A) 8 hours 20 min
 B) 6 hours 30 min
 C) 8 hours 30 min
 D) 7 hours 30 min

26. Kanik joined her dance classes on April 12th for 39 days. On which date will her dance class last?
- A) 22nd May
B) 19th May
C) 21st May
D) 20th May
27. A rectangular piece of paper is 60 mm long and 36 mm wide. After making a straight cut you have a square and a leftover piece. You do the same with the leftover piece and so on until the leftover piece itself is square. What is the side length of the last square?
- A) 1 mm
B) 4 mm
C) 6 mm
D) 12 mm
28. 30 children took part in a sports competition, in the sports football and handball. 15 took part in football and 20 took part in handball. How many students took part in both sports?
- A) 5
B) 15
C) 30
D) 10
29. The number 35 has the property that it can be divided by its unit digit, because 35 divided by 5 is exactly 7. The number 38 does not have this property. How many numbers bigger than 21, but smaller than 30 have this property?
- A) 2
B) 3
C) 4
D) 5
30. Twelve girls met up in a pastry shop. On average they ate 1.5 muffins. None of them ate more than two muffins and two ate nothing. How many girls ate two muffins?
- A) 9
B) 8
C) 6
D) 7

IQ

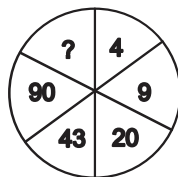
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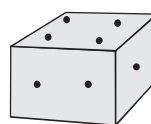
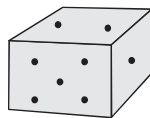
31. Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number:

$$37 : 100 : 24 : ? : 29 : 76$$

- A) 64
B) 61
C) 75
D) 70
32. Gunveen walked 9 km towards the west from her home, then turned towards the south and walked 11 km. Then she walked 13 km towards the east, and finally walked 4 km towards the west. How far is Srinija from her initial position?
- A) 15 km
B) 10 km
C) 13 km
D) 11 km
33. Insert the missing number in the given figure

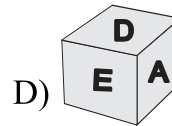
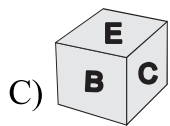
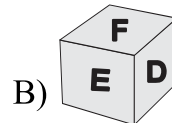
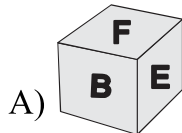
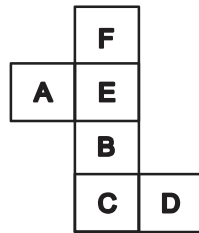


- A) 185
B) 1
C) 184
D) 145
34. Two positions of dice are shown. How many points will appear opposite to the face containing 5 points?



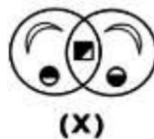
- A) 3
B) 1
C) 2
D) 4

35. An explanatory figure of dice is given. Which of the following options correctly represents the given dice when it is folded?

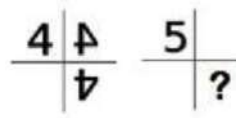


Direction for Questions 36-37: After colouring a cube of $4 \times 4 \times 4 \text{ cm}^3$ (each side with 4 cm) with yellow, it is cut into small cubes of $1 \times 1 \times 1 \text{ cm}^3$.

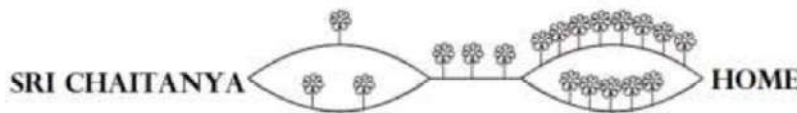
36. How many total number of small cubes are there?
 A) 16
 B) 64
 C) 8
 D) 27
37. Total number of small cubes with three coloured surfaces are
 A) 64
 B) 8
 C) 16
 D) 25
38. If P denotes 'multiplied by', T denotes 'subtracted from', M denotes 'added to' and B denotes 'divided by', then $28 \text{ B } 7 \text{ P } 8 \text{ T } 6 \text{ M } 4 = ?$
 A) 35
 B) 30
 C) 32
 D) 34
39. Choose the correct water image of the given figure (X) from amongst the four alternatives.



40. The number 4 is reflected twice in the picture. What appears in the field with the question mark if we do the same with the number 5?



- A) 2
 B) 2
 C) 5
 D) 5
41. Chidvilas goes directly from the Sri Chaitanya to Home and counts the flowers along the way. Which of the following numbers can he not obtain this way?



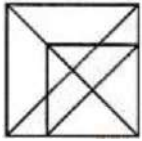
- A) 9
 B) 10
 C) 11
 D) 12
42. Which of the following expressions has a value that differs from the others?
- A) $20 \times 10 + 20 \times 10$
 B) $(20 \div 10) \times 20 \times 10$
 C) $(20 \div 10) \cdot 20 + 10$
 D) $(20 \div 10)(20 \div 10) \times 10 \times 10$
43. In order to decide who will get the last piece of Sarvesh Mehtani's birthday cake, five children use a rhyme. Sarvesh, Sara, Harsh, Vasu and Chidvilas stand in this order, clockwise in a circle. They count in a clockwise direction:

SRI – CH – AIT – AN – YA – YOU.

For each syllable, one child is counted and whoever is counted at **YOU** is out and then counting starts from the next child. They continue this until only one child is left. Sarvesh can choose who starts. Who does he have to choose if he wants Chidvilas to get the piece of cake?

- A) Sarvesh
 B) Sara
 C) Harsh
 D) Vasu

44.



Count the number of triangles in this figure

- A) 14
- B) 18
- C) 21
- D) 20

45. If North-east becomes West and South-east becomes North then what will West become?

- A) South-east
- B) North-east
- C) South
- D) North-west

46. Select the option that is related to the second word in the same way as the given number is related to the first word.

CAT : 3120 :: MAT : ?

- A) 13120
- B) 12120
- C) 1312
- D) 10120

47. Fill in the blanks such that the series is complete

ba _ ba _ bac _acb _ cbac

- A) aacb
- B) bbca
- C) ccba
- D) cbac

48. Insert the missing number in the given figure

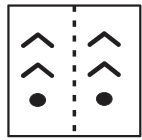
\backslash	25200	\backslash	5
3600		\backslash	5
?		\backslash	10
\backslash	120	\backslash	30

- A) 350
- B) 320
- C) 500
- D) 600

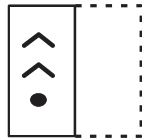
49. If \times means \div , $-$ means \times , \div means $+$ and $+$ means $-$, then $(3 - 15 \div 19) \times 8 + 6 = ?$

- A) -1
- B) 2
- C) 4
- D) 8

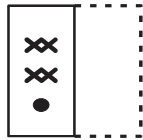
50. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



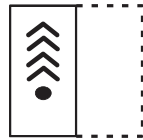
(X)



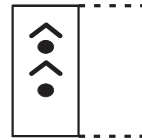
(1)



(2)



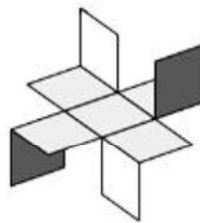
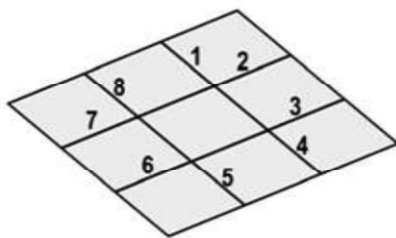
(3)



(4)

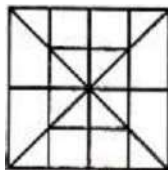
- A) 1
C) 3
- B) 2
D) 4

51. Lines are drawn on a piece of paper and some of the lines are given numbers. The paper is cut along some of these lines and then folded as shown in the picture. Along which lines were the cuts made



- A) 1,3,5,7
C) 2,3,5,6
- B) 2,4,6,8
D) 3,4,6,7

52.



Count the number of squares in this figure

- A) 15
C) 19
- B) 16
D) 20

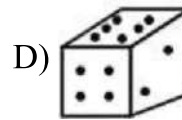
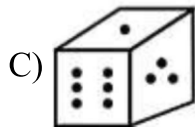
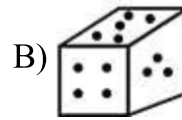
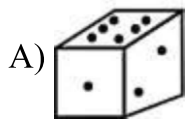
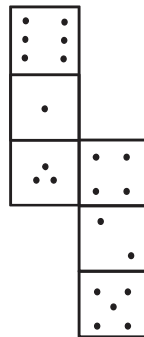
53. In a row of boys, if *A* who is tenth from the left and *B* who is ninth from the right interchange their positions, *A* becomes fifteenth from the left. How many boys are there in the row?

- A) 23
C) 28
- B) 27
D) 31

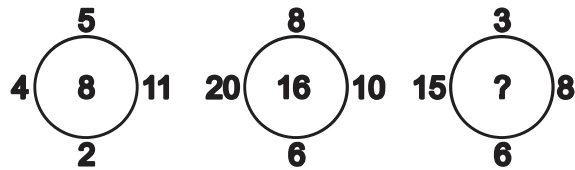
54. A class of girls stands in a single line. One girl is nineteenth in order from both the ends. How many girls are there in the class?

- A) 38
C) 36
- B) 37
D) 39

55. An explanatory figure of dice is given. Which of the following options correctly represents the given dice when it is folded?



56. Insert the missing number in the given figure



A) 5

B) 6

C) 14

D) 8

57. Given a series 25, 49, 121, 169, ?
Find what number would come in place of the question mark(?).

A) 225

B) 256

C) 289

D) 361

58. Given a series 2, 5, 12.5, ?, 78.125, 195.3125
Find what number would come in place of the question mark(?).

A) 31.25

B) 40.25

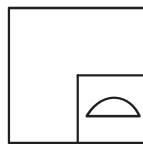
C) 32.50

D) 21.00

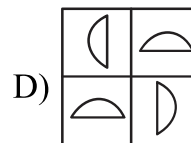
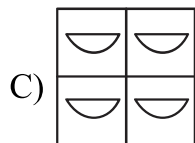
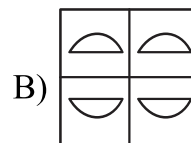
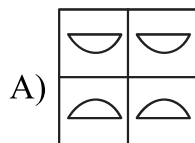
59. The six faces of a cube are coloured black, brown, green red, white and blue, such that
- (i) Red is opposite black
 - (ii) Green is between red and black
 - (iii) Blue is adjacent to white
 - (iv) Brown is adjacent to blue
 - (v) Red is at the bottom
- Which colour is opposite brown?

- A) White
- B) Red
- C) Green
- D) Blue

60. If a square sheet of paper is folded two times from the centre and cuts are made as shown in the problem figure. How will it appear when it is opened?



(x)



SPACE FOR ROUGH WORK



Sri Chaitanya

Class 5th

Answer Key

Code A

Q. NO.	CODE-A	Q. NO.	CODE-A	Q. NO.	CODE-A	Q. NO.	CODE-A
1	C	16	B	31	B	46	A
2	B	17	B	32	D	47	C
3	D	18	C	33	A	48	D
4	B	19	D	34	D	49	B
5	D	20	A	35	B	50	A
6	C	21	A	36	B	51	B
7	B	22	B	37	B	52	B
8	B	23	B	38	B	53	A
9	C	24	A	39	D	54	B
10	D	25	C	40	C	55	D
11	C	26	D	41	C	56	C
12	D	27	D	42	C	57	C
13	C	28	A	43	B	58	A
14	B	29	B	44	C	59	A
15	A	30	B	45	A	60	A