

**11**

The Competition in

**Advanced Mathematics Skills**

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**Advanced Maths Test I & II**

***MODEL PAPERS***

**Class : II**



**Eduranet**

Intellectual Olympiad Foundation

(Promoted by Eduranet Educational Society (Regd. 309/09))

**Hyderabad | India**

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## **SYLLABUS**

1. Numbers (1 - 100)
2. Numbers (upto 1000)
3. Types of Numbers
4. Addition
5. Subtraction
6. Introducing Multiplication and Division
7. Measurement
8. Time and Calender
9. Shapes and Patterns
10. Money
11. Handling Data

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- 1) **Advanced Maths Test - I ..... 5 - 24**
- 2) **Advanced Maths Test - II ..... 25 - 32**

# ADVANCED MATHS TEST-I

Code: 1121

## PRELIMS

**Max. Marks : 75**

**Duration : 75 Mins.**

### General Instructions :

1. Please find the Answer Sheets (OMR) with in the envelop given to you.
2. Mention your Test Code, Student ID, Name, Class, Section and School Name on the OMR Sheet as per Question Paper and Hall Ticket.
3. This question paper contains 75 Questions, duration is 75 minutes.
4. Do rough work in the empty sheet provided along with this question paper.
5. Answer questions in OMR sheet only.
6. Don't write or tick anything on the question paper.
7. Use only Black or Blue Ball Point Pen or Dark Percil to answer the question in OMR sheet.
8. Indicate the correct answer by darkening one of the 4 or 5 responses provided.
9. Submit only OMR sheet to the invigilator

**1. In the number 4076, the value of the digit in the hundred place is \_\_\_\_\_**

- a) 100            b) 10            c) 1            d) 0

**2. We can repeat symbol I and X \_\_\_\_\_ times.**

- a) one time  
b) two times  
c) three times  
d) four times



**7. Do the addition**



- a) 4418      b) 4419      c) 4416      d) 4415

**8. How many tens form one thousand ?**

- a) ten      b) hundred      c) five      d) nine

**9. Study the number pattern below**

$$6 + 7 + 8 + 9 + 10 = 40$$

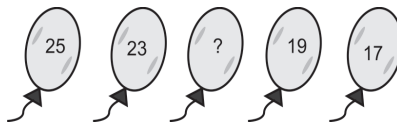
$$7 + 8 + 9 + 10 + 11 = 45$$

$$8 + 9 + 10 + 11 + 12 = 50$$

**It this pattern continues, write down the smallest of the five consecutive numbers which will give 85 as the answer:**

- a) 14      b) 15      c) 16      d) 17

**10. What is the missing number ?**

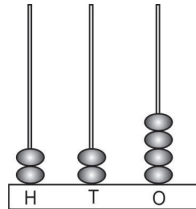


- a) 20      b) 21  
c) 24      d) 30

**11. My 10's digit is 3, 100's digit in 6, and ones digit in 4. who am I ?**

- a) 364      b) 634      c) 436      d) 346

12. While playing with the abacus, Bhavya lost one bead from the tens bar. Now, her abacus looks as shown in the figure. What was her actual number ?



- a) 133                      b) 243                      c) 234                      d) 224
13. Twenty students are in a queue. Reema is thirteenth in queue. Which number sentence shows how many students are behind Reema?
- a)  $20 + 13 = 33$                       b)  $33 - 13 = 20$   
 c)  $20 - 13 = 7$                       d)  $20 + 7 = 27$
14. Isha has 11 chocolates. She gives 2 to his brother. How many chocolates is Isha left with?
- a)  $11 - 2 = 9$  chocolates                      b)  $11 + 2 = 13$  chocolates  
 c) 11 chocolates                      d) 8 chocolates
15. Which of the following does not make 19?
- a)  $17 + 2$                       b)  $11 + 8$                       c)  $19 - 1$                       d)  $13 + 6$
16. The correct substraction sentence based on the picture is



- a)  $8 - 7 = 1$                       b)  $8 - 6 = 2$   
 c)  $6 - 2 = 4$                       d)  $6 - 6 = 0$

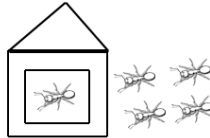


17. Which number makes the statement given below true ?

$$49 - 8 = \square + 34$$

- a) 7                      b) 8                      c) 9                      d) 4

18. Five ants live together. Four ants go out for a walk. Which number sentence shows how many ants stay at home ?



- a)  $5 - 4 = 1$                       b)  $5 + 4 = 9$   
 c)  $9 - 5 = 4$                       d)  $6 + 4 = 10$

19. Find the missing number 
$$\begin{array}{r} 286 \\ + 1\square3 \\ \hline 449 \end{array}$$

- a) 2                      b) 4                      c) 6                      d) 8

20.  $56 \div 8 = 7$  Here '7' is \_\_\_\_\_



- a) Divisor                      b) Quotient  
 c) Dividend                      d) Remainder

21.  $\triangle + \square = 10$   
 $\square - \triangle = 2$





(The two number sentences shown above are true.)

Which of the following values for  $\triangle$  and  $\square$  make both number sentences true?

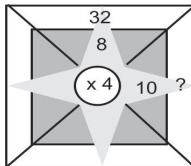
- a)  $\square = 6, \triangle = 4$                       b)  $\square = 8, \triangle = 2$   
 c)  $\square = 7, \triangle = 3$                       d)  $\square = 8, \triangle = 6$

22.  = 6  
 = 2

If both equations shown above are true , which of the following equations must also be true?

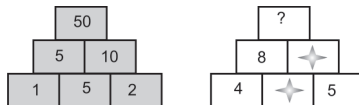
- a)  b)   
 c)  d) 

23. Find the missing number in the space provided.



- a) 40                      b) 14                      c) 80                      d) 4

24. Find the number which replaces the question mark, by applying the same rule as given in the example.



- a) 160                      b) 80                      c) 56                      d) 8

25. Each table has 4 legs. How many legs do 5 tables have ?



- a) 4                          b) 5                          c) 10                          d) 20

26. Mrs. Raj sewed 4 skirts for her daughters. She sewed 2 red buttons on each skirt. She sewed 2 more pink buttons than red buttons. How many buttons did she sew altogether ?

- a) 8                      b) 24                      c) 16                      d) 32

27.  $57 \times 4$  is the same as

- a)  $50 + 7 + 4$     b)  $200 + 280$   
 c)  $5 \times 74$     d)  $4 \times 57$

28. A T-shirt costs Rs. 29. What is the cost of 5 such T-shirts?

- a) Rs. 34                  b) Rs. 43                  c) Rs. 140                  d) Rs. 145

29.  $64 \times 2 = \underline{\hspace{2cm}} \times 4$

- a) 32                      b) 62                      c) 64                      d) 128

30. Which number is missing in the number sentence ?

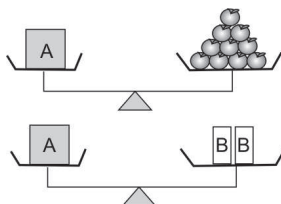
$$63 \div \square = 7$$

- a) 6                      b) 7                      c) 8                      d) 9

31. Charan took three days to finish reading a book of 36 pages. How many pages did he read a day ?

- a) 4                      b) 12                      c) 13                      d) 33

32. study the diagram and answer the question that follows.



Every B is equal to .

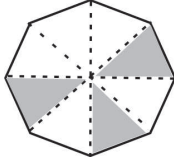
- a) 20                      b) 10                      c) 5                      d) 3



37. 25 paise is part of one rupee . Then it's fraction is \_\_\_\_.

- a)  $\frac{1}{2}$                       b)  $\frac{1}{3}$                       c)  $\frac{1}{4}$                       d) 1

38.



\_\_\_\_\_ of the figure is shaded

- a)  $\frac{5}{8}$                       b)  $\frac{3}{5}$                       c) 3                      d)  $\frac{3}{8}$

39. Hemant spent Rs. 10. He bought twice as many correction pens as rulers. He bought \_\_\_\_ correction pens and \_\_\_\_ rulers.

- a) 6,2                      b) 6,4                      c) 8,2                      d) 8,4

40. Count the number of squares in the figure



- a) 3                      b) 1                      c) 2                      d) 4

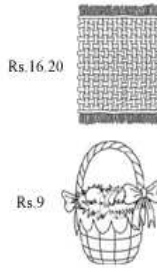
41. Dividend = divisor × quotient + ?

- a) Remainder                      b) Reduce  
c) Addition                      d) Subtraction

42. Given that the original price of a bag is Rs. 24, and that of a pair of jeans is Rs. 18, what is the total price of the bag and the pair of jeans after the discount ?

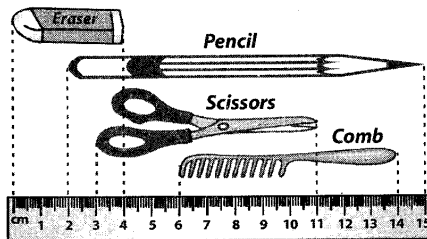
- a) 24                      b) 20                      c) 17                      d) 21

43. The mat costs \_\_\_\_\_ more than the basket.



- a) Rs. 16.20
- b) Rs. 7
- c) Rs. 7.20
- d) Rs.25.20

**Directions: (44 - 47)** Study the picture and answer the questions that follows :



44. The eraser is \_\_\_\_\_ cm long.

- a) 3
- b) 6
- c) 5
- d) 4

45. The pencil is \_\_\_\_\_ cm long.

- a) 13
- b) 10
- c) 12
- d) 11

46. The scissors is \_\_\_\_ cm long

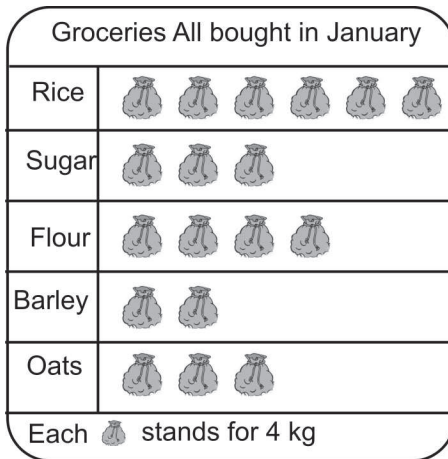
- a) 6
- b) 8
- c) 5
- d) 7

47. The comb is \_\_\_\_\_ cm long

- a) 4
- b) 6
- c) 8
- d) 9

**Directions: (48 - 52)** - the picture graph below shows the groceries Ali bought for his restaurant in January.

Study the graph and answer the given questions



48. He bought \_\_\_\_\_ kg of rice.

- a) 16
- b) 12
- c) 24
- d) 8





54. If the mass of the watermelon is 308 g, then the mass of the pineapple is \_\_\_\_ g.

- a) 368
- b) 492
- c) 358
- d) 452

**Directions : (55-58) :** Water in each of the following containers is poured into cups. Study the picture and answer the following questions.



55. \_\_\_\_ cups of tea can fill 1 teapot.

- a) 2
- b) 3
- c) 4
- d) 5

56. \_\_\_\_ cups of tea can fill 3 teapots.

- a) 6
- b) 8
- c) 9
- d) 7

57. The \_\_\_\_ has the least amount of tea.

- a) kettle
- b) teapot
- c) jug
- d) kettle & jug

58. The \_\_\_\_\_ has the most amount of tea.

- a) jug  
b) teapot  
c) kettle  
d) kettle & jug

59. Manasa is celebrating Diwali with her friends. She knew that fire crackers can be burst only till 10 P.M. The time being shown by the wall clock now is :



For how much more time can Manasa and her friends enjoy bursting crackers?

- a) 60 minutes  
b) 40 minutes  
c) 30 minutes  
d) 20 minutes

60. Two trains leave from Hyderabad and arrive at Secunderabad as shown in the time table below :

TRAIN TIME TABLE

Train	Leaves Hyderabad	Arrives Secunderabad
Express	5:10 P.M.	5 : 40 P.M.
Local	5:30 P.M.	6 : 20 P.M.

How many more minutes does it take the local train than the express train to go from Hyderabad to Secunderabad ?

- a) 50  
b) 40  
c) 30  
d) 20

61. The table below shows the number of months in different number of years.

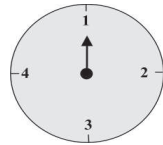
Months in Years

Number of years	1	2	3
Number of months	12	24	36

**What is one way to find the number of months in 7 years?**

- a) multiply 7 by 12
- b) add 12 to 7
- c) subtract 7 from 12
- d) divide 12 by 7

**62. Below is the picture of a dial with only one hand. The hand takes eight minutes to go around once. Where will the dial be after 18 minutes if it starts at 1 ?**



- a) 1
- b) 2
- c) 3
- d) 4

**63. Gopal watch a cartoon programme which lasted 30 minutes.**

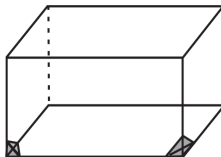
**The programme ended at 2.30 p.m.**

**The programme started at\_\_\_\_\_.**

- a) 2 : 30 pm
- b) 3 : 00 pm
- c) 2 : 00 am
- d) 2 : 00 pm

**Direction( 64 & 65 ) :**

**The 2 shaded corners of the figure below have been cut out.**



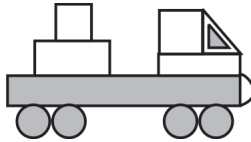
**64. The remaining figure has \_\_\_\_\_ flat surfaces**

- a) 5
- b) 8
- c) 4
- d) None of these

65. The 2 corners that have been cut out have \_\_\_\_ flat surfaces.

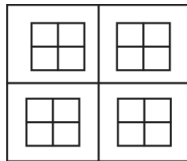
- a) 6
- b) 7
- c) 8
- d) 5

66. Which figure is 3 times in the diagram below:



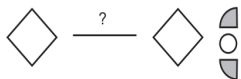
- a) Square
- b) Rectangle
- c) Triangle
- d) Circle

67. The figure below is made up of \_\_\_\_ squares.



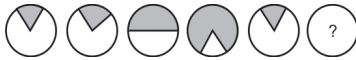
- a) 18
- b) 20
- c) 25
- d) 30

68. Complete the pattern using the right options below



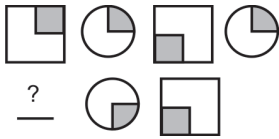
- a)
- b)
- c)
- d)





69. What comes next ?



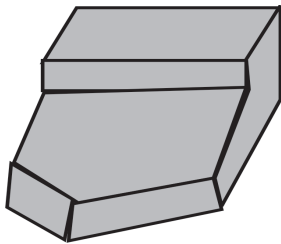
- a)       b)       c)       d) 

70. Complete the pattern using the right options below :



- a)       b)   
 c)       d) 












71. The figure at the right has \_\_\_ flat surfaces.



- a) 8      b) 9  
 c) 7      d) 10

**Directions ( 72-73):** The King's Fun Fair is in town!

Play the games to win tokens and exchange for toys.

Token Exchange Centre	
 <b>Toy gun</b>	
 <b>Toy plane</b>	
 <b>Robot</b>	
 <b>Teddy bear</b>	
 <b>Mini computer</b>	
Each  stands for 2 tokens.	

72. Jasmine had just enough tokens to exchange for a teddy bear. If she wanted to exchange her tokens for 2 toy aeroplanes, she will need \_\_\_ more tokens.

- a) 8
- b) 6
- c) 4
- d) 2

73. Krishna won 30 tokens.

He exchanged all of them for two toys.

He chose the \_\_\_ and the \_\_\_.

- a) toy gun; toy plane
- b) robot; teddy bear
- c) robot; mini computer
- d) teddy bear ; mini computer

74. A box had 879 g of flour. While pouring some flour into a container, 54 g of flour was spilt on the floor. The box now had 106 g of flour left. Then the mass of flour in the container is \_\_\_\_\_

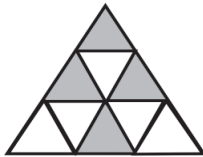
a) 654

b) 719

c) 536

d) 594

75. For the following figure, write fraction of the unshaded part.

a)  $\frac{4}{9}$ b)  $\frac{4}{5}$ c)  $\frac{5}{9}$ d)  $\frac{5}{4}$

**KEY TO MODEL PAPER - I**

- |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 1. d  | 2. c  | 3. b  | 4. b  | 5. c  | 6. c  |
| 7. a  | 8. b  | 9. b  | 10. b | 11. b | 12. d |
| 13. c | 14. a | 15. c | 16. b | 17. a | 18. a |
| 19. c | 20. b | 21. a | 22. b | 23. a | 24. b |
| 25. d | 26. b | 27. d | 28. d | 29. a | 30. d |
| 31. b | 32. c | 33. c | 34. b | 35. b | 36. c |
| 37. c | 38. d | 39. d | 40. a | 41. a | 42. d |
| 43. c | 44. d | 45. a | 46. b | 47. c | 48. c |
| 49. b | 50. d | 51. a | 52. b | 53. c | 54. b |
| 55. b | 56. c | 57. b | 58. c | 59. c | 60. d |
| 61. a | 62. b | 63. d | 64. b | 65. c | 66. b |
| 67. c | 68. a | 69. c | 70. b | 71. b | 72. a |
| 73. b | 74. b | 75. c |       |       |       |



# ADVANCED MATHS TEST - II

Code: 1122

## FINALS

**Max. Marks : 40**

**Duration : 60 Mins.**

### General Instructions :


1. Please find the separate Answer Sheets along with the question paper.
2. Mention your Test Code, Student ID, Name, Class, Section, Contact no. and School Name on the Answer Sheet as per Question Paper and Hall Ticket.
3. This question paper contains IV sections, duration is 60 minutes.
4. Please read the instructions carefully before attempting the question.
5. Answer questions in Answer Sheet only.
6. Don't write or tick anything on the question paper.
7. Use only Black or Blue Ball Point Pen to answer the question in Answer Sheet.
8. Submit only answer sheet(s) to the invigilator.

### SECTION - I

**10 × 1 = 10**

**DIRECTIONS: ( 1 - 10 ) :** Complete the following statements with an appropriate word/term to be written in the answer sheet.

1. \_\_\_\_ × 10 = 5 × 6

2.  The shaded part of fraction is \_\_\_\_\_

3.  $456 + 187 + 187 =$  \_\_\_\_\_


4.  $1 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$
5. If  $\star = 5$ ,  $O = 10$  then  $\star + O + \star = \underline{\hspace{2cm}}$
6. One pencil cost is Rs.4. then 20 pencil cost is Rs.
7.  $\underline{7}89325$  the underlined number place value is           .
8. The difference between smallest two digit number and biggest one digit number is
9. 3, 41, 195, 479 are            numbers.
10. 1250 p = Rs.

**SECTION - II**

$$10 \times 1 = 10$$

**DIRECTIONS : (11 - 20) :** Read the following statements and write true or false with reasons or solutions; in the answer sheet.

11. 10 thousand =  $10 \times 10$  hundred
12. The number 8430 has 4 hundred
13. The product of 9 and 99 is 891
14. 5 days = 120 hours
15. A cube has 3 faces
16.  $86 \times 2$  is more than  $162 \div 10$

17.  = Rs. 8.25  
 2 Rupees. 5 Rupees. 1 Rupee. 50.Paise 25 paise  
 paise

18.  $(35 \div 5) \times 8 = 56$

19.  $1121 > 1211$

20.  $340 + 250 + 361 = 870$

### SECTION - III

$$10 \times 1 = 10$$

**DIRECTIONS : ( 21 - 30 )** - Each question contains statements given in two columns which have to be matched. Match the statements (21,22,...30) in column I with statements (a,b,...r) in column II . Arrange the matched statements in order and write in the answer sheet.

#### Column I

21)  $999 + 99 + 9 =$

22) Look at this number

1 3 5 7 8 9 2 0 4 6 which digit is  
fifth from the left.

23) Dividend = 93, Divisor = 4,  
Then the Remainder is \_\_\_\_\_

24) 60 in = 1 h, 150 min =

#### Column II

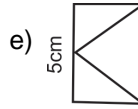
a) 1

b) 1017

c) 4

d)

25)  $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3$  is



26)  $89 - 54 =$

f) 8

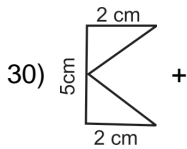
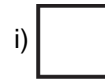
27) All my sides are straight and equal  
I am Mr \_\_\_\_\_

g) 9

28) 1 Kg

h) hours

29) 3 pens cost 30 rupees then  
1 pen cost is \_\_\_\_\_



j)  $2\frac{1}{2}$  hours

k)  $3 \times 8$



m) 1107

n) 35

o) 32

p) Rice

q) 10



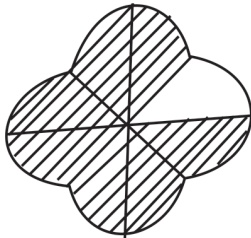
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**SECTION - IV**

$$10 \times 1 = 10$$

**DIRECTIONS: (31 - 40) - Short Answer Questions :**

31. Find the value of  $(17 \times 5) + (5 \times 35)$ .
32. There are 21 boys and 18 girls in each class. How many pupils are there in 5 classes.
33. For the following figure. Write fraction of the unshaded part.



34. Write the following number in expanded form 3,76,42,569
35. Add largest 4 digit number + smallest 5 digit number + largest 3 digit number.
36. Divide 933 by 4 using long division method
37. Solve :
- $$(4357 + 3725) - (1029)$$
38. Yuvaraj had 7250 kg of sugar, he sold 4380 kg in the first week and 1500kg in the second week. How much sugar was left with him.

39. Form the largest and smallest 4 digit number with the given digits

7, 8, 1, 3,

40. Insert the commas in Indian system

67863768

**SOLUTIONS TO MODEL PAPER - II****SECTION - I****Fill in the Blanks**

- 1) 3            2)  $\frac{3}{8}$             3) 830            4) 100  
5) 20            6) 80            7) 9 thousand  
9) odd            10) 12.50

**SECTION - II****True / False**

- 11) True        12) True        13) False        14) True  
15) False        16) True        17) False        18) True  
19) False        20) False

**SECTION - III****Match the Following**

- 21)  $\rightarrow m$ ;        22)  $\rightarrow f$ ;        23)  $\rightarrow a$ ;        24)  $\rightarrow j$ ;  
25)  $\rightarrow k$ ;        26)  $\rightarrow h$ ;        27)  $\rightarrow i$ ;        28)  $\rightarrow p$ ;  
29)  $\rightarrow q$ ;        30)  $\rightarrow l$

**SECTION - IV****Short Answer Questions**

31)  $85 + 175 = 260$

32)  $39 \times 5 = 195$

33)  $\frac{1}{8}$

34)  $3,00,00,000 + 70,00,000 + 6,00,000 + 40000 + 2000 + 500 + 60 + 9$

35)  $9999 + 10000 + 999 = 20998$

36)  $4 \overline{) 903} \left( \begin{array}{r} 233 \text{ Quotient} = 233, \text{ Remainder} = 1 \\ \underline{13} \\ 12 \\ \underline{13} \\ 12 \\ \underline{12} \\ 1 \end{array} \right.$

37)  $4357 + 3725 = 8082$

$8082 - 1029 = 7053$

38) 1370

39) smallest 4 - digit number is - 1378 ; largest 4- digit number is - 8731

40) 6, 78, 63, 768