NAB Competition 2021- II - 8th & Above

National Analytical Brains Competition 2021-II- 8th & Above

* Required

1. Name *

   _____

2. Registration ID *

   _____

3. Contact Number (registered one) *

   _____

| Mathematical Ability | All question are mandatory. Please note there is no negative marking: |

4. 1. Find the value of "?" if : 65% of 240 +? % of 150 = 210

   Mark only one oval.

   ◯ 46

   ◯ 45

   ◯ 36

   ◯ 32

5.   2. The square of prime number is prime.

Mark only one oval.

◯ Yes

◯ No

◯ May or May not be

◯ None of these

6.   3. On selling 15 toys at ₹ 750, there is a loss, equal to the cost price of 5 toys.
      The cost price of a toy is :

Mark only one oval.

◯ ₹85

◯ ₹80

◯ ₹65

◯ ₹75

7.   4. The length and breadth of a rectangular park is 50 m and 120m respectively.
      What is the minimum distance you will cover if you cross the park diagonally?

Mark only one oval.

◯ 120m

◯ 130m

◯ 180m

◯ 170m

8.   5. What will be the value of :

$$\sqrt{176 + \sqrt{2401}}$$

Mark only one oval.

- ◯ 14
- ◯ 15
- ◯ 16
- ◯ 17

9.   6. Find the least square number, which is exactly divisible by 3, 4, 5, 6 and 8.

Mark only one oval.

- ◯ 3600
- ◯ 4200
- ◯ 120
- ◯ 14400

10.   7. Pintu's income is 20% less than Naman. How much percent is Naman's income more than Pintu's income?
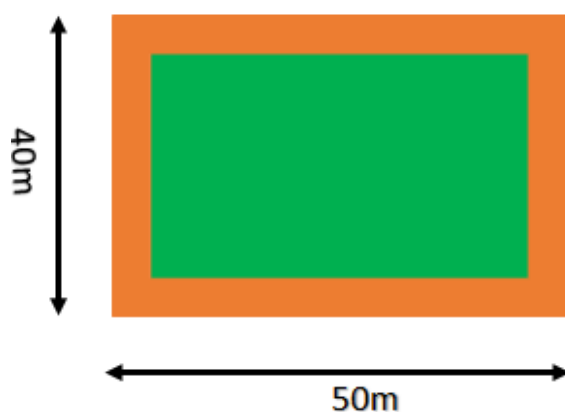
Mark only one oval.

- ◯ 20%
- ◯ 15%
- ◯ 80%
- ◯ 25%

11. 8. What is the least number that must be added to 1500 to get a perfect square.

Mark only one oval.

◯ 21

◯ 100

◯ 56

◯ 79

12. 9. A garden 50 m by 40 m is surrounded by a path of area 425 sq m. Find the width of the path.

Mark only one oval.

◯ 5m

◯ 2.5m

◯ 42.5m

◯ 7.5m

13. 10. A dealer allows 15% discount on his goods and still gains 6.25% . If cost price of a pen is ₹ 80, then its marked price is :

Mark only one oval.

◯ ₹100

◯ ₹93.75

◯ ₹86.25

◯ ₹95

14. 11. Find the greatest number of 4 digits which is a perfect square.

Mark only one oval.

◯ 10000

◯ 9801

◯ 9999

◯ 9901

15. 12. A rectangular sheet of paper 44cm x 18cm is rolled along its length and a cylinder is formed. Find the volume of the cylinder.

Mark only one oval.

◯ 2490 cubic cm

◯ 2257cubic cm

◯ 2772 cubic cm

◯ 792 cubic cm

16. 13. Which number is cube of even natural number:

Mark only one oval.

◯ 2704

◯ 2662

◯ 1648

◯ 1728

17. 14. If x : 20 :: 8 : 5 then value of x is :

Mark only one oval.

◯ 25

◯ 28

◯ 2

◯ 32

18. 15. In how many years the sum of money will double itself with 5% interest (simple) per annum?

Mark only one oval.

- ⬭ 5
- ⬭ 10
- ⬭ 15
- ⬭ 20

19. 16. There were 3143 boxes, which were required to be arranged in the form of a square. In this arrangement 7 boxes left over. How many boxes were there in each row?

Mark only one oval.

- ⬭ 39
- ⬭ 56
- ⬭ 46
- ⬭ 34

20. 17. In the number A2B, A is the largest one digit odd number and B is largest perfect square number less than 20. Then find the square root of the number.

Mark only one oval.

- ⬭ 96
- ⬭ 88
- ⬭ 78
- ⬭ None of these

21. 18. If radius of a circle is increased to twice its original length, then how much will the area of the circle increase?

Mark only one oval.

◯ 2 times

◯ 3 times

◯ 4 times

◯ 1 timestimes

22. 19. There are 1400 students in a school, 25% of those wear spectacles and 2/7 of those wearing spectacles are boys. How many girls in the school wear spectacles?

Mark only one oval.

◯ 400

◯ 250

◯ 100

◯ 350

23. 20. The ratio of the length and breadth of a plot is 5:3. If the breadth is 60 m less than the length, what is the perimeter of the plot?

Mark only one oval.

◯ 480m

◯ 240m

◯ 120m

◯ 360m

Logical Reasoning Ability

All question are mandatory. Please note there is no negative marking:

24.   21. One term in the below series is wrong. Find out the wrong term :

121,   143,   165,   186,   209

Mark only one oval.

- ( ) 143
- ( ) 165
- ( ) 186
- ( ) 209

25.   22. There is a certain relation between two given words on one side of :: and similar relation is on the other side of :: Find the missing word of the second pair:

Mango: Fruit :: Potato : ?

Mark only one oval.

- ( ) Root
- ( ) Fruit
- ( ) Stem
- ( ) Flower

26.   23. Out of the five words four are alike and one is different. Find the different one:

Mark only one oval.

- ( ) Uncle
- ( ) Nephew
- ( ) Brother
- ( ) Cousin
- ( ) Niece

27. 24. Out of the five Numbers four are alike in some manner and one is different. Find the different one:

Mark only one oval.

- ◯ 27
- ◯ 125
- ◯ 343
- ◯ 729
- ◯ 1321

28. 25. In a certain code, THANKS is written as SKNTHA, then how will STUPID be written in that code?

Mark only one oval.

- ◯ DIPUTS
- ◯ DISPUT
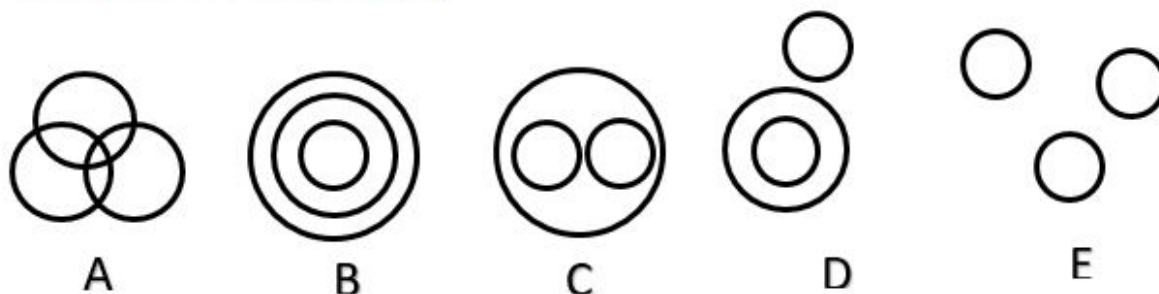- ◯ DIPUST
- ◯ DPISTU
- ◯ None of These

29. 26. If A is 40m south-west of B. C is 40 m South-east of B. Then, C is in which direction of A?

Mark only one oval.

- ◯ East
- ◯ West
- ◯ North-east
- ◯ South

30.   27. Below three words are related in some way. Which of the following diagrams can best represent the relation:

Nose, Hand, Body

Mark only one oval.

⬭ A

⬭ B

⬭ C

⬭ D

⬭ E

31.   28. Out of the below five words, which will come in middle if arranged alphabetically as in a dictionary:

Mark only one oval.

⬭ Entry

⬭ Efflorescent

⬭ Entreat

⬭ Ensure

⬭ Every

32.   29. If day before yesterday was Thursday, when will Sunday be:

Mark only one oval.

⬭ Today

⬭ Two days after today

⬭ Tomorrow

⬭ Day after tomorrow

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33. 30. If + means -, - means x, ÷ means + and x means ÷ then 15 − 3 + 10 x 5 ÷ 5 = ?
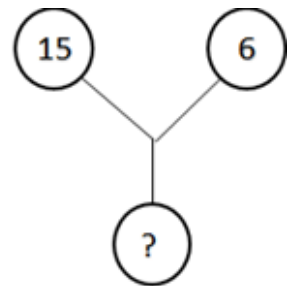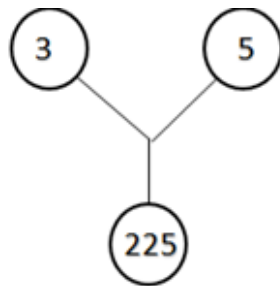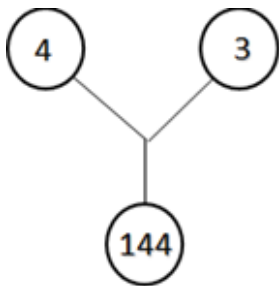
Mark only one oval.

◯ 5

◯ 22

◯ 48

◯ 58

34. 31. A pineapple costs ₹ 7 each. A watermelon costs ₹ 5 each. X spends ₹ 38 on these fruits. The number of pineapples purchased is:

Mark only one oval.
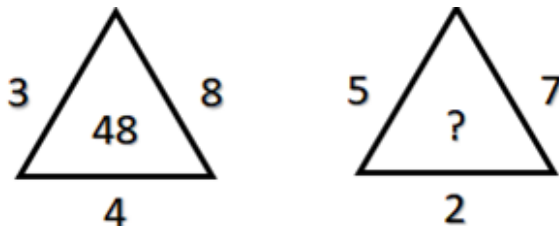
◯ 2

◯ 3

◯ 4

◯ Data inadequate

35. 32. Find the missing number?

Mark only one oval.

◯ 1216

◯ 2250

◯ 11036

◯ 8100

11 of 18
20-03-2022, 10:35

36.   33. Find the missing number?

Mark only one oval.
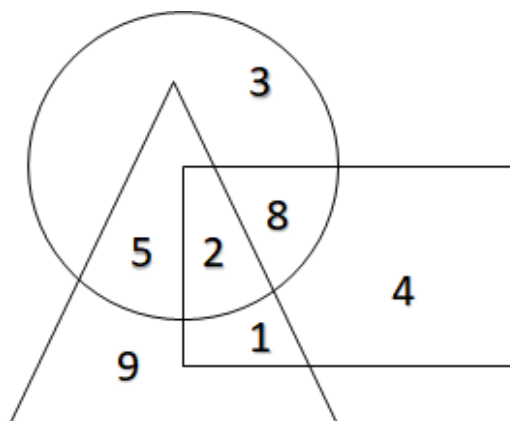
( ) 27

( ) 35

( ) 54

( ) 64

37.   34. Below numbers follow a trend either row wise or column wise. Find out
       that trend and choose the best fit choice:

1	4	9	?
1	2	3	4
2	4	6	?

Mark only one oval.

( ) 16, 8

( ) 25,5

( ) 36,4

( ) 49.7

38.   35. What are the numbers that lie inside any two figures?

Mark only one oval.

- ◯ 2,1
- ◯ 5,1
- ◯ 5,9
- ◯ 9,1

39.   36. In the series given below, how many 8s are there each of which is exactly divisible by its immediate preceding as well as succeeding numbers?

<div style="text-align:center;color:red;font-weight:bold;">2 8 3 8 2 4 8 2 4 8 6 8 2 8 2 4 8 3 8 2 8 6</div>

Mark only one oval.

- ◯ One
- ◯ Two
- ◯ Three
- ◯ Four
- ◯ None of these

40.   37. One term is missing in the below series. Find the correct alternative that will come in place of "?"

2B,   4C,   8E,   14H,   ?

Mark only one oval.

- ◯ 16K
- ◯ 20I
- ◯ 20L
- ◯ 22L

41.   38. In a certain code:

'917' means 'BRING SMALL BED';

'946' means 'CLEAN ONE BED' and

'941' means 'ONE SMALL BED'. Which digit in that code means 'CLEAN'?

Mark only one oval.

- ◯ 1
- ◯ 6
- ◯ 4
- ◯ 9

42.   39. One term is missing in the below series. Find the correct alternative that will come in place of "?"

B,   D,   F,   I,   L,   P,   ?

Mark only one oval.

- ◯ R
- ◯ S
- ◯ T
- ◯ U

43.   40. In the below series, some letters are missing. Choose the correct option to fill the series.

a_____ cdaab_____ cc_____daa_____ bbb_____ ccddd

Mark only one oval.

- ( ) bbdac
- ( ) dbbca
- ( ) bddca
- ( ) bdbda

Real Life Problems : Study the following information and answer the questions from 41 to 50:

Vihaan, Sid, Jayesh and Arnav are four friends who do not mind exchanging items. Vihaan had two chessboards each costing ₹ 500 and a record player. Jayesh-originally had a cycle and a walkman. Each cricket bat costs ₹ 700. Both Arnav and Jayesh got a cricket bat from Sid. Vihaan gave his record player costing ₹ 2000 to Sid. Jayesh got a camera costing ₹ 1500 from Arnav. The cycle Jayesh had costs ₹ 1000 and the Walkman costs ₹ 700. Sid had three cricket bats at the beginning and Arnav had two cameras total cost of which is ₹ 5000. Vihaan gave one of his chessboards to Jayesh and took Jayesh's cycle. Jayesh gave his Walkman to Arnav.

44.   Q 41: Who did not have a cricket bat at the end of exchange of items?

Mark only one oval.

- ( ) Vihaan
- ( ) Sid
- ( ) Jayesh
- ( ) Arnav

45.   Q 42: Total cost of materials Jayesh had at the beginning was:

Mark only one oval.

◯ ₹ 5000

◯ ₹ 3000

◯ ₹ 2100

◯ ₹ 1700

46.   Q 43: After completion of exchange of items, Vihaan had with him an item which no one else had. What is the item?

Mark only one oval.

◯ Chessboard

◯ Cycle

◯ Record Player

◯ Walkman

47.   Q 44: At the beginning who had the costliest items?

Mark only one oval.

◯ Vihaan

◯ Sid

◯ Jayesh

◯ Arnav

48.   Q 45: In the process of exchange of items, Sid received an item from:

Mark only one oval.

◯ Vihaan

◯ Jayesh

◯ Arnav

◯ None of these

49.   Q 46: After exchange of items, Sid had:

Mark only one oval.

◯ one record player

◯ one cricket bat

◯ one record player and one cricket bat

◯ one record player and one camera

50.   Q 47: After exchange of items, who had the items total cost of which is ₹ 1500 ?

Mark only one oval.

◯ Vihaan

◯ Sid

◯ Jayesh

◯ Arnav

51.   Q 48: Who incurred maximum loss after the exchange of items?

Mark only one oval.

◯ Arnav

◯ Vihaan

◯ Jayesh

◯ Sid

52.   Q 49 Who made profit after the exchange of items?

Mark only one oval.

◯ Vihaan and Sid

◯ Vihaan and Arnav

◯ Sid and Jayesh

◯ Jayesh and Arnav

53.   Q 50: At the end of exchange of items, Arnav had in his possession

Mark only one oval.

( ) one cricket bat and one camera

( ) one camera, one walkman and one cricket bat

( ) one cricket bat and one walkman

( ) One Camera and one walkman

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