

NAB Competition 2021 - Grade 07

National Analytical Brains Competition 2021 for Grade 07

* 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. A man sold two pipes at ₹ 12 each. On one he gained 20% and another he lost 20%. On the whole he

Mark only one oval.

gained ₹1

lost ₹1

gained ₹2

neither gained no lost

5. 2. A rectangular park of length 80 m and breadth 50 m is there in a locality. Two crossroads perpendicular to each other of width 5 m needs to be constructed in between the park for walking. Find the area of Horizontal Road.

Mark only one oval.

- 400 sq m
- 420 sq m
- 250 sq m
- None of these

6. 3. A retailer buys some silk scarves for ₹460 and sells them at 60% profit. For how much does he sell them?

Mark only one oval.

- 676
- 620
- 520
- 736

7. 4. On the number line, the value of $(-2) \times 3$ lies on right hand side of

Mark only one oval.

- 7
- 4
- 0
- 7

8. 5. Water level in a well was 30 m below ground level. During rainy season, rainwater collected in different water tanks was drained into the well and the water level rises 10 m above the previous level. The wall of the well is 1m 30cm high and a pulley affixed at a height of 70 cm. Ram wants to draw water from the well. The minimum length of the rope, that he can use is

Mark only one oval.

- 40 m
- 20 m
- 22 m
- 18 m

9. 6. $(-35) \times [6 + 4]$ is not same as

Mark only one oval.

- $(-35) \times 10$
- $(-35) \times 6 + (-35) \times 4$
- $-35 \times 6 \times 4$
- -350

10. 7. All decimal numbers are also rational numbers.

Mark only one oval.

- True
- False
- None of these
- can't say

11. 8. The area of a rectangle 144 m long is same as that of a square of side 84 m.
The width of the rectangle is

Mark only one oval.

- 14 m
 49 m
 7 m
 None of these

12. 9. Which sign will come in the blank space?

$$(-6) \times (-5) - 2 \quad \underline{\hspace{2cm}} \quad (-6) \times (-5 - 2)$$

Mark only one oval.

- >
 <
 =
 Can't say

13. 10. What should be added to twice the rational number $-\frac{7}{3}$ to get $\frac{3}{7}$?

Mark only one oval.

- $\frac{107}{21}$
 $\frac{17}{21}$
 $-\frac{40}{21}$
 None of these

14. 11. The digits of a two-digit number differ by 3. If the digits are interchanged, and the resulting number is added to the original number, we get 143. What can be the original number?

Mark only one oval.

- 63
- 58
- 43
- None of these

15. 12. The sum of three consecutive multiples of 11 is 363. The middle number in these multiples is

Mark only one oval.

- 121
- 110
- 132
- None of these

16. 13. Zero is a rational number.

Mark only one oval.

- True
- False
- None of these
- can't say

17. 14. What should be added to $(-4)/9$ to obtain the nearest natural number?

Mark only one oval.

- 1
 $4/9$
 $-4/9$
 $13/9$

18. 15. If Tarun sells his table for ₹ 720, he would lose 25%. To gain 25%, he should sell it for:

Mark only one oval.

- 1600
 1000
 1200
 can't say

19. 16.

Multiplication of Multiplicative inverse of $-1\frac{4}{9}$ and additive inverse of -2 is

Mark only one oval.

- $18/13$
 $-18/13$
 $-5/9$
 $5/9$

20. 17. Value of

$$\left(\frac{-3}{5} \times \frac{10}{-7}\right) - \left(\frac{6}{-7} \times \frac{5}{6}\right)$$

Mark only one oval.

- 1/7

-13/9

11/7

1/7

21. 18. . _____ rational numbers are there between 1 and 2

Mark only one oval.

0

1

2

None of these

22. 19. Number of whole numbers lying between -5 and 5 is :

Mark only one oval.

10

3

4

5

23. 20. In a furniture shop, 24 tables were bought at the rate of ₹ 450 per table. The shopkeeper sold 16 of them at the rate of ₹ 600 per table and the remaining at the rate of ₹ 400 per table. Find her gain or loss percent

Mark only one oval.

- 18%
- More than 18%
- Less than 18%
- can't say

Logical Reasoning
Ability

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

24. Q 21: How many 5s are there in the following number sequence which are immediately preceded by 7 and immediately followed by 6?

7 5 5 9 4 5 7 6 4 5 9 8 7 5 6 7 6 4 3 2 5 6 7 8

Mark only one oval.

- One
- Two
- Three
- Four

25. Q 22: In the following alphabet series. If the order of the alphabets is reversed then which letter would be exactly in the middle.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Mark only one oval.

- L
- M
- N
- None of these

26. Q 23: Find the missing term:

5 8 11 14 ?

Mark only one oval.

- 18
- 16
- 17
- None of these

27. Q 24: If all the words are arranged alphabetically as in a dictionary then which one will come in the last?

Mark only one oval.

- Transmit
- Transplant
- Transport
- Translate
- Transition

28. Q 25: If you are facing north-east and move 15 m forward, turn left and move 8 m, then you are:

Mark only one oval.

- North of your initial position
- South of your initial position
- East of your initial position
- West of your initial position

29. Q 26: Doctor is related to Patient in the same way lawyer is related to

Mark only one oval.

Customer

Accused

Magistrate

Client

30. Q 27 : If light' is called 'morning', 'morning' is called 'dark', 'dark' is called 'night', 'night' is called 'sunshine' and 'sunshine' is called 'dusk', when do we sleep ?

Mark only one oval.

Night

Sunshine

Dusk

Dark

31. Q 28: If LENGTH is coded as "5" and ACADEMIC is coded as "7" , then what is the code for SOLUTIONS will be coded as:

Mark only one oval.

6

9

8

7

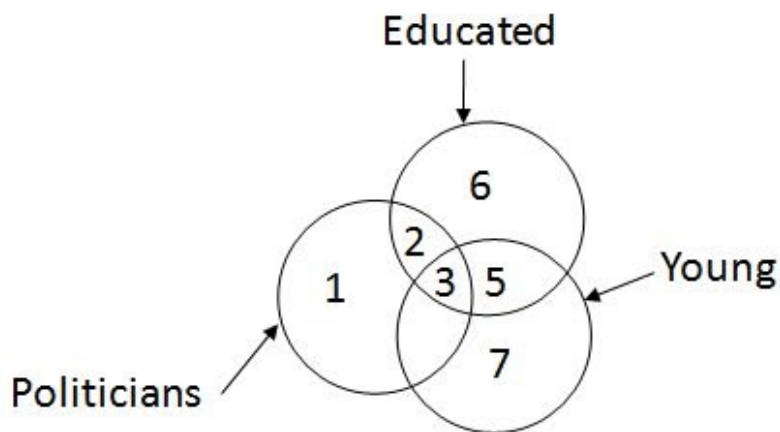
32. Q 29: There is a certain relation between two words given on one side of :: .
 Out of the below four alternatives, one word will have similar relation with the
 word on other side of ::

Mother : Child :: Cloud : ?

Mark only one oval.

- Weather
- Rain
- Thunder
- Water

33. Q 30: Which region denote the educated politicians which are not young.



Mark only one oval.

- 2
- 3
- 4
- 5

34. Q 31: Choose the word which is least like the other words given below:

Mark only one oval.

- Jan
 May
 July
 August
 November

35. Q 32: There is a certain relation between two Numbers given on one side of :: .
Out of the below four alternatives, one number will have similar relation with
the number on other side of ::

49 : 81 :: 100 : ?

Mark only one oval.

- 64
 144
 169
 None of These

36. Q 33: Find the missing term in the series:

A I , B J , C K , ?

Mark only one oval.

- DL
 DM
 GH
 LM

37. Q 34: One term in the series is wrong. Find that out:

8, 13, 21, 32, 47, 63, 83

Mark only one oval.

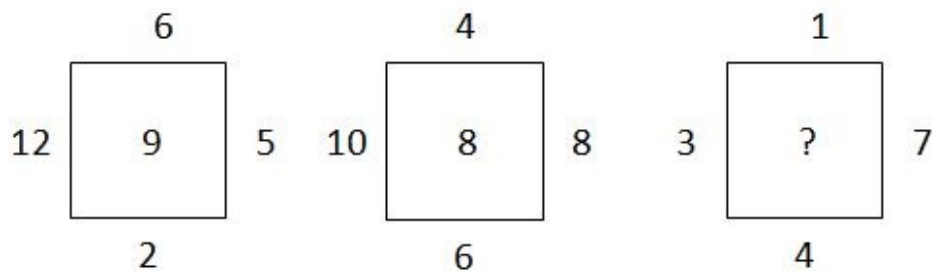
- 13
- 21
- 32
- 47

38. Q 35: If AT=20, BAT =40, CAT will be equal to:

Mark only one oval.

- 30
- 50
- 60
- 70

39. Q 36:



Mark only one oval.

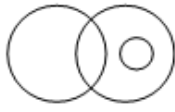
- 5
- 6
- 7
- 8

40. Q 37: Below three words are related in some way.

Apple, Mango, Fruits



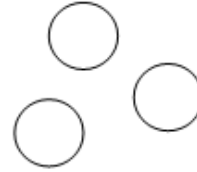
A



B



C



D



E

Mark only one oval.

A

B

C

D

E

41. Q 38: Rahul ranks eighteenth in a class of 39 students. What is his rank from the last?

Mark only one oval.

18

19

21

22

42. Q 39: What will be the difference between the sum of the odd digits and the sum of the even digits in the number 857423?

Mark only one oval.

- 0
- 1
- 2
- 3
- 4
- None of these

43. Q 40: In a certain code "GARLIC" is coded as 36 and "STARTLING" is coded as 81, then how to code "YOUNG"?

Mark only one oval.

- 25
- 49
- 63
- 36

**Real Life
Problems**

Read the following passage to answer these questions from 41 to 45

Anita, Mahima, Rajan, Lata and Deepti are five cousins. Anita is twice as old as Mahima. Rajan is half the age of Mahima. Anita is half the age of Deepti and Rajan is twice the age of Lata.

44. Q 41: Who is the youngest?

Mark only one oval.

- Deepti
- Rajan
- Lata
- Anita

45. Q 42: Who is the eldest ?

Mark only one oval.

- Deepti
- Lata
- Anita
- None of these

46. Q 43: Which of the following pairs of persons are of the same age?

Mark only one oval.

- Mahima and Lata
- Anita and Mahima
- Mahima and Rajan
- None of these

47. Q 44: Anita is younger than _____?

Mark only one oval.

- Rajan
- Mahima
- Deepti
- None of these

48. Q 45: If Mahima is 16 years old, then what is the age of Lata?

Mark only one oval.

- 4 years
- 5 years
- 7 years
- 14 years

49. Q 46: You scored 90% marks in three tests. After that you took another test and your total percentage became 92%. How much percentage you scored in 4th test alone.

Mark only one oval.

92%

91%

98%

96%

50. Q 47: Today is Tuesday. One which day of the week is 100 days from from?

Mark only one oval.

Wednesday

Thursday

Saturday

Monday

51. Q 48: During a plantation derive , you are planning to plant trees on 50 m long road from end to end . Each tree will be 5 meter away from other. How may tree will you require.

Mark only one oval.

10

12

11

9

52. Q 49: You are asked to distribute 200 new books into three libraries in such a way that Vivekananda Library is supposed to get 15 more books than Aryabhata library and Aryabhata library will receive 25 more books than Ramanunjan Library. Can you find out how many new book will be there in Aryabhata library?

Mark only one oval.

- 120
- 85
- 125
- 70

53. Q 50: Painter asked you to bring paint for room which has width 3 m and length is 4 m by height is 3m. Painter gave an estimate that 100 ml of paint can cover an area of 1sq meter . Can you find out how much paint will be required to paint the room including roof. For better shining paint will be done two times.

Mark only one oval.

- 5.4 L
- 10.8 L
- 3L
- 6L

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