

NAB Competition 2021 - Grade 05

National Analytical Brains Competition 2021 for Grade 05

* 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 $64 \div 16 \times 5 + 20 - 30$

Mark only one oval.

11

10

14

12

None of these

5. 2. Which of the following statements is not true?

Mark only one oval.

- Both addition and multiplication are closed for whole numbers.
- Addition and multiplication both are commutative for whole numbers.
- Zero is the identity for multiplication of whole numbers.
- Multiplication is distributive over addition for whole numbers.

6. 3. Which of the following pairs is not co-prime?

Mark only one oval.

- 42, 60
- 45, 4
- 75, 2
- 31, 13

7. 4. The number of trays of eggs available for making cake is 85000. Each tray has 9 eggs. Each cake is made with 200 eggs. How many cakes can be made from the eggs available?

Mark only one oval.

- 3825
- 3805
- 3725
- none of these

8. 5. Every whole number has its predecessor as a whole number.

Mark only one oval.

- True
- False
- Can't Say
- None of these

9. 6. How many times does 8 go into 1244, and what is the remainder?

Mark only one oval.

- 155, R=4
 152, R=4
 154, R=7
 None of these

10. 7. Find the value of $7614 + 832 \times 48 \div 16 - 8$

Mark only one oval.

- 11504
 10102
 14052
 11204

11. 8. Two tankers contain 140 liters and 290 liters of petrol, respectively. Find the capacity of the largest measuring container which can measure the petrol of each tanker exactly?

Mark only one oval.

- 406
 29
 14
 10

12. 9. Rohit was asked to multiply a number by 25. He instead multiplied the number by 52 and got the answer 324 more than the the correct answer. What was the correct answer?

Mark only one oval.

- 11
- 12
- 27
- Cannot be calculated

13. 10. In a question of division with zero remainder a candidate took 12 as divisor, instead of 21.The quotient obtained by him was 35.The correct quotient is

Mark only one oval.

- 0
- 12
- 13
- 20

14. 11. What is four times the difference between 8th multiple of 15 and 2nd multiple of 13?

Mark only one oval.

- 94
- 376
- 48
- 367

15. 12. Rahul and Akshan are friends as well as hockey coaches in the same school. Rahul goes to school on every 2nd day while Akshan goes there on every 7th day to deliver coaching classes. If they both delivered the coaching sessions today, how many days, in the next 112 days, will both of them be delivering the coaching sessions on the same day?

Mark only one oval.

- 16
- 8
- 14
- 12

16. 13. 25,32,481 people live in state A. 2,82,745 people moved from state B to state A and 18,452 people moved from state A to state C. How many people now live in state A?

Mark only one oval.

- 3796783
- 3796774
- 2796774
- none of these

17. 14. A truck has capacity of carrying 90,450 kg. How many boxes of 45 kg each can it carry at the most?

Mark only one oval.

- 210
- 4070250
- 2010
- 2100

18. 15. Determine the two numbers nearest to 10000 which are exactly divisible by 6, 5, 9 and 3.

Mark only one oval.

- 9990, 10080
- 9995, 10060
- 9999, 10008
- 9909, 10008

19. 16. In a city, one out of every 5 people is illiterate. If there are 2050 men and 1800 women in the city. How many people are literate?

Mark only one oval.

- 770
- 3080
- 410
- None of these

20. 17. Sonu had ₹ 1000000 with him. He purchased a colour T.V. for ₹ 15480, a motor cycle for ₹ 45520 and a flat for ₹ 770000. How much money was left with him?

Mark only one oval.

- ₹ 199000
- ₹ 862000
- ₹ 169000
- None of these

21. 18. On dividing 16075 by a number, the quotient is 16 and remainder is 43. Find the divisor.

Mark only one oval.

- 102
- 1001
- 1002
- None of these

22. 19. 5 dozen of bananas are bought for ₹ 250. What will be the cost of 132 bananas?

Mark only one oval.

- ₹ 550
- ₹ 560
- ₹ 580
- None of these

23. 20. What least number must be subtracted from 4000 so that the number is completely divisible by 19 ?

Mark only one oval.

- 50
- 10
- 20
- None of these

Logical Reasoning
Ability

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

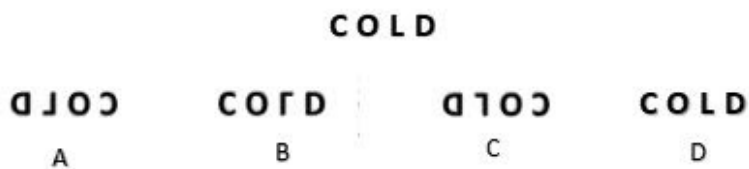
24. Q 21: Ritvik gave ₹200 to buy this toy. How much money will he get back?



Mark only one oval.

- ₹ 26.92
- ₹ 26.02
- ₹ 25.92
- ₹ 25.02

25. Q 22: Which one of the following is the water image of the given word?



Mark only one oval.

- A
- B
- C
- D

26. Q 23: Sachit is 149 cm tall and Ronit is 13 cm shorter than Sachit. If Viren is 10 cm taller than Ronit, then by What is the height of Viren?

Mark only one oval.

- 149
- 146
- 139
- 126

27. Q 24: Choose the correct option to complete the series given below.

C CD CDE _____

Mark only one oval.

- ABCD
 CFE
 CDEF
 CDFG

28. Q 25: If 'B' stands for '+', 'E' stands for '-', 'R' stands for 'x', 'H' stands for '÷' then

6 R 5 B 21 H 3 E 4 = ?

Mark only one oval.

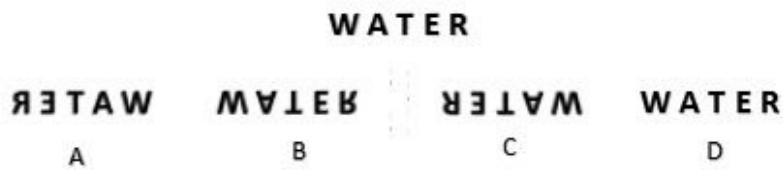
- 13
 48
 38
 33

29. Q 26: Rony walks towards South. After walking a certain distance he turns his right. In which direction is he now.

Mark only one oval.

- East
 West
 North
 South

30. Q 27: Which one of the following is the Mirror image of the given figure?



Mark only one oval.

- A
- B
- C
- D

31. Q 28: Find the missing number, if a certain rule is followed in the given figure.



Mark only one oval.

- 8
- 6
- 5
- 7

32. Q 29: Which one of the following shows the highest amount?

Mark only one oval.

- ₹ 35.5
- ₹ 35.05
- ₹ 35.15
- ₹ 35.49

33. Q 30: If “RAT” is termed as “calculator”, a “Calculator” is termed as “Mouse”, and “Mouse” is termed as “Key board”, and a “key board” is termed as “camera”. Then which will help you to do the calculation:

Mark only one oval.

- RAT
- Calculator
- Mouse
- Camera

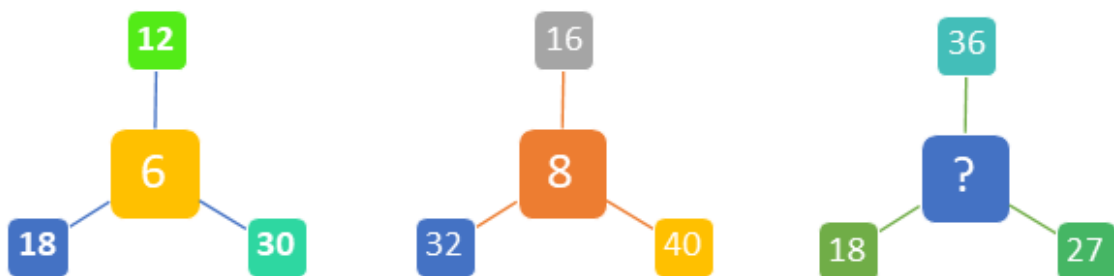
34. Q 31: There is a certain relation between two words given on one side of :: . Out of the below four alternatives, one word will have similar relation with the word on other side of ::

Walking : Running :: Smiling : ?

Mark only one oval.

- Feeling
- Laughing
- Face
- Weeping

35. Q 32: Find the missing number in the given pattern.



Mark only one oval.

- 6
- 9
- 12
- 18

36. Q 33: Choose the word which is least like the other words given below:

Mark only one oval.

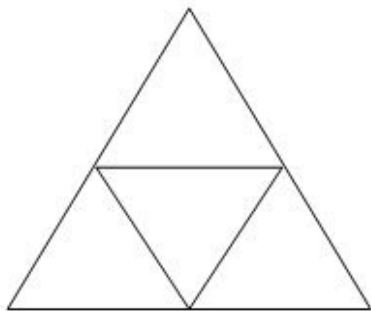
- Cow
- Deer
- Donkey
- Rhinoceros
- Goat

37. Q 34: If CARE could be given the code number 31185, what code number can be given to HEART?

Mark only one oval.

- 8511820
- 8512821
- 9611820
- 8511719

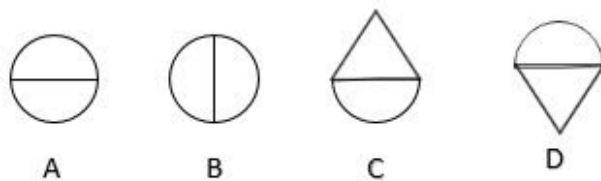
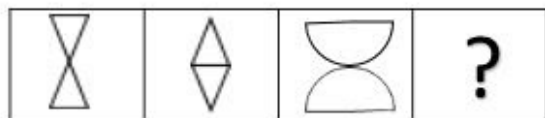
38. Q 35: Find the total number of triangles in the below figure:



Mark only one oval.

- 4
- 5
- 6
- 7

39. Q 36: Which shape will come in “?”



Mark only one oval.

- A
- B
- C
- D

40. Q 37: If

$$\text{If } \text{cup} + \text{cup} + \text{cup} + \text{cup} = \text{bucket}$$

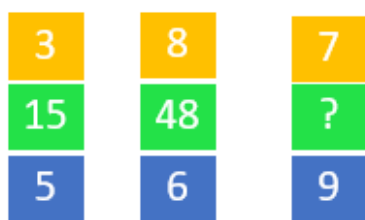
$$\text{bucket} + \text{bucket} = 32 \text{ L}$$

$$\text{Then } \text{bucket} + \text{cup} = ?$$

Mark only one oval.

- 4 L
- 20 L
- 16L
- 12 L

41. Q38: Find the missing number, if the same rule is followed in all the three figures.



Mark only one oval.

- 72
- 63
- 81
- 16

42. Q 39: What is unfit in the following series?

ACE MOQ RTW LNP

Mark only one oval.

- ACE
- MOQ
- RTW
- LNP
- None of these

43. Q 40: Mohit is heavier than Sukoon. Rita is lighter than Anita. Sukoon is heavier than Anita. Who is the lightest?



Mark only one oval.

- MOHIT
- SUKOON
- RITA
- ANITA

**Real Life
Problems**

Questions from 41 to 45 are correlated:

There are five sisters – Aarzoo, Dhvani, Ekanshi, Hansa and Mehar. Ekanshi is the tallest. Aarzoo is shorter than Dhvani but taller than Mehar. Hansa is a little shorter than Dhvani and little taller than Aarzoo.

44. Q 41: Who is the shortest?

Mark only one oval.

- Mehar
- Hansa
- Aarzoo
- Dhvani

45. Q 42: If they stand in the order of increasing heights, who is the second?

Mark only one oval.

- Hansa
- Aarzo
- Dhwani
- Mehar

46. Q 43: If they stand in the order of their heights, who will be in the middle?

Mark only one oval.

- Dhwani
- Mehar
- Aarzo
- Hansa

47. Q 44: Who is the second tallest?

Mark only one oval.

- Hansa
- Dhwani
- Aarzo
- Mehar

48. Q 45: Who is taller than Hansa but shorter than Ekanshi?

Mark only one oval.

- Dhwani
- Mehar
- Aarzo
- Data Inadequate

Questions from 46 to 50 are interrelated to each other:

There are 4 Engineers working in an office. Each Engineer has 3 supervisors assisting them. There are two receptionists, Jaya and Kavya, working at the reception.

49. Q 46: How many people are working in the Office?

Mark only one oval.

9

14

18

16

50. Q 47: On Monday, 27 persons made complaints with each Engineer. However, 8 of the Persons made false complaints and got rejected. How many real complaints were filed on Monday?

Mark only one oval.

108

100

19

35

51. Q 48: On Tuesday, Jaya answered 52 phone calls and Kavya answered 14 less calls than Jaya did. How many calls were answered in total?

Mark only one oval.

38

66

90

86

52. Q 49: On Wednesday, two engineers went on leave. And on that day Jaya received 28 complaints and Kavya received 24 complaints. How many complaints were attended by each engineer, if both attended equal number of complaints, with no calls remained unattended?

Mark only one oval.

- 13
- 26
- 52
- None of these

53. Q 50: For every call received a receptionist gets ₹ 25 as bonus. Then on Wednesday who earned more money and how much more?

Mark only one oval.

- Kavya , ₹ 600
- Jaya, ₹ 700
- Kavya, ₹ 100
- Jaya, ₹ 100

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