

Bank of Maharashtra Clerk Exam Solved Question Paper 2009

Numerical Ability

1. A clock shows the time as 6 a.m. If the minute hand gains 2 minutes every hour, how many minutes will the clock gain by 9 p.m.?

- 30 minutes
- 25 minutes
- 28 minutes
- 34 minutes

2. Find the right number, from the given options, at the place marked by the question mark: 2, 4, 8, 32, 256, ?

- 4096
- 8192
- 512
- 1024

3. Find the number missing at question mark: 10, 11, 23, 39, 64, ?, 149

- 100
- 103
- 78
- 128

4. A super fast bus of KSRTC starting from 'Trivandrum' and reaches 'Attingal' in 45 minutes with an average speed of 40 km/hr. If the speed is increased by 10 km/hr how much time it will take to cover the same distance?

- 34 minutes
- 36 minutes
- 38 minutes
- 40 minutes

5. The difference between 6 times and 8 times of a figure is 14. What is the figure?

- 12
- 9
- 7
- 6

6. If $92y = 36$ what is $9y$?

- 4
- 6
- 9
- 18

7. One fourth percent of 180 is:

- 4.5
- 0.45
- 0.045
- 45

8. A candidate appearing for an examination has to secure 40% marks to pass paper I. But he secured only 40 marks and failed by 20 marks. What is the maximum mark for paper I?

- 100
- 200
- 180
- 150

9. Find the missing number 32, 52, 74, 112, 135

- 16
- 15
- 17
- 14

10. If 250 is increased to 300, what is the percentage increase? (a) 16.67 (b) 20 (c) 23 (d) 17
11. The ratio of 9 seconds to 10 hours is

- 1:40
- 1:4000
- 9:10
- 1:400

12. A person lost 10% when he sold goods at Rs.153. For how much should he sell them to gain 20%?

- 204
- 250
- 240
- 210

13. What will be xy if $7862xy$ is to be divisible by 125? (a) 25 (b) 00 (c) 75 (d) 50

14. A train of 100 meters long is running at the speed of 36 km per hour. In what time it passes a bridge of 80 meters long?

- 30 seconds
- 36 seconds
- 20 seconds
- 18 seconds

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15. If two-third of a bucket is filled in one minute then the time taken to fill the bucket completely will be

- 90 seconds
- 70 seconds
- 60 seconds
- 100 seconds

16. If a quarter kilogram costs Rs. 60 then how much will cost for 150 grams?

- Rs. 30
- Rs. 24
- Rs. 36
- Rs.

40 17. If 3 men or 6 boys can do a piece of work in 20 days then how many days with 6 men and 8 boys take to do the same work?

- 5
- 8
- 10
- 6

18. Find the sum of first 100 natural numbers

- 5050
- 5005
- 9900
- 9050

19. Two poles of height 6 meters and 11 meters stand on a plane ground. If the distance between their feet is 12 meters then find the difference in the distance between their tops:

- 12m
- 5m
- 13m
- 11m

20. How many balls of radius 4 cm can be made from a solid sphere of lead of radius 8 cm?

- 4
- 8
- 16
- 2

21. The solution to $x^2 + 6x + 9 = 0$ is

- $x_1 = + 3, x_2 = -3$
- $x_1 = 3, x_2 = 3$
- $x_1 = -3, x_2 = -3$
- No solution

22. What is the chance of getting a 2 or 4 in rolling a die?

- $\frac{2}{3}$
- $\frac{1}{6}$
- $\frac{1}{3}$
- $\frac{1}{2}$

23. At what rate of simple interest per annum an amount will be doubled in 10 years?

- 10%
- 7.5%
- 16%
- 15%

24. Five times an unknown number is 5 less than 50. The unknown number

- 10
- 11
- 9
- 5

25. The acute angle between the hour hand and minute hand of a clock at 4 PM

- 900
- 1200
- 1500
- 2400

26. Water is filled in a cylindrical vessel in such a way that its volume doubles after every five minutes. If it takes 30 minutes for the vessel to be full, then the vessel will be one fourth full in

- 20 minute
- 25 minutes
- 7 minutes 30 seconds
- 10 minutes

27. If 10 cats can kill 10 rats in 10 minutes how long will it take 100 cats to kill 100 rats

- 1 minutes
- 10 minute
- 100 minutes
- 10000 minutes

28. If 75 % of a number is added to 75, the result is the number itself, then the number is:

- 250
- 750
- 400
- 300

29. A school has enough food for 400 children for 12 days. How long will the food last if 80 more children join them?

- 6 days
- 7 days
- 10 days
- 8 days

30. The sum of two consecutive numbers is 55, which is the largest number?

- 25
- 28
- 26
- 27

31. When a shop keeper sold $\frac{2}{3}$ of an item, he got the cost price of the whole lot. What is the percentage of his profit?

- $33 \frac{1}{8} \%$
- $66 \frac{2}{3} \%$
- 25 %
- 50 %

32. The perimeter of a rectangular field is 480 meters and the ratio between the length and breadth is 5:3. The area of the field is:

- 7,200m²
- 15,000m²
- 54,000m²
- 13,500m²

33. If you add 100 to a certain number, the result will be more than, if you multiply that number by 1000 what is that number?

- 1.5
- 1.0
- 2.5
- 2.0

34. A student has to secure 40 % marks to pass. He gets 150 marks and fails by 30 marks. What is the maximum marks?

- 400
- 500
- 475
- 450

35. The circumcentre of an obtuse triangle will always be in the

- Interior of the triangle
- Midpoint of the diameter
- Exterior of the triangle
- Midpoint of the side of the triangle

36. What is the degree measure of a semicircle?

- 360
- 90
- 270
- 180

37. Which among the following is the point of intersection of the medians of a triangle?

- Circumcentre
- Centroid
- Orthocentre
- Incentre

38. The height of a cone and its base diameter are equal. If the base radius is 'r' what is its slant height?

- $3r$
- $4r$
- $\sqrt{5}r$
- $\sqrt{3}r$

39. The radii of two spheres are in the ratio 2:3. What is the ratio of their surface areas?

- 4:9
- 2:3
- 8:27
- 4:6

40. What is the common ratio of the progression $3^2, 6, 6^2$?

- 3
- 2
- $\frac{1}{2}$
- $\frac{1}{3}$

41. In class of 100 students 50 students passed in Mathematics and 70 passed in English, 5 students failed in both Mathematics and English. How many students passed in both the subjects?

- 25
- 30
- 50
- 45

42. Speed of a boat in still water is 9 km/hr. It goes 12 km down stream and comes back to the starting point in three hours. What is the speed of water in the stream?

- 3 km/hr
- 4 km/hr
- 4.5 km/hr
- 5 km/hr

43. A student was asked to add 16 and subtract 10 from a number. He by mistake added 10 and subtracted 16. If his answer is 14 what is the correct answer?

- 20
- 26
- 30

- 32

44. Find the area of a right angled triangle whose hypotenuse is 10 cm and base 8 cm.

- 48 sq.cm
- 34 sq.cm
- 24 sq.cm
- 42 sq.cm

45. Find the next term of the series: 3, 6, 9, 18, 27, 54,

- 81
- 69
- 63
- 57

46. A number consists of 20 plus 20% of its value. The number is:

- 20
- 22
- 25
- 30

47. 20% of 5 + 5% of 20 =

- 5
- 2
- 6
- 21

48. The angle between the minute hand and the hour hand of a clock, when the time is 8.30

- 800
- 600
- 1050

- 750

49. Rs. 1581 is divided among A, B and C in the ratio 10 : 15 : 6. What is the share of B?

- 306
- 765
- 700
- 510

50. The sum of four consecutive counting numbers is 154. Find the smallest number:

- 36
- 37
- 38
- 31

Answers:- 1 A 11 B 21 C 31 D 41 A 2 B 12 A 22 B 32 D 42 A 3 A 13 D 23 A
33 B 43 B 4 B 14 D 24 C 34 D 44 C 5 C 15 A 25 B 35 C 45 A 6 B 16 C 26 A 36 D
46 C 7 C 17 D 27 B 37 B 47 B 8 D 18 A 28 D 38 C 48 D 9 C 19 C 29 C 39 C 49 B
10 B 20 B 30 B 40 C 50 B