

Aptitude prelims

1. The rupee/coin changing machine at a bank has a flaw. It gives 10 ten rupee notes if you put a 100 rupee note and 10 one rupee coins if you insert a 10 rupee note but gives 10 hundred rupee notes when you put a one rupee coin. Sivaji, after being ruined by his rivals in business is left with a one rupee coin and discovers the flaw in the machine by accident. By using the machine repeatedly, which of the following amounts is a valid amount that Sivaji can have when he gets tired and stops at some stage (assume that the machine has an infinite supply of notes and coins):

- a. 26975
- b. 53947
- c. 18980
- d. 33966

2. Anand packs 304 marbles into packets of 9 or 11 so that no marble is left. Anand wants to maximize the number of bags with 9 marbles. How many bags does he need if there should be atleast one bag with 11 marbles

- a. 33
- b. 32
- c. 31
- d. 30

3. Two vehicles A and B leaves from city Y to X. A overtakes B at 10:30 am and reaches city X at 12:00 pm. It waits for 2 hrs and return to city Y. On its way it meets B at 3:00 pm and reaches city Y at 5:00 pm. B reaches city X, waits for 1hr and returns to city Y. After how many hours will B reach city Y from the time A overtook him for the first time?

- a. 50 hrs
- b. 49.5 hrs
- c. 41.5 hrs
- d. 37.5 hrs

4. If the price of an item is decreased by 10% and then increased by 10%, the net effect on the price of the item is

- A. A decrease of 99%
- B. No change
- C. A decrease of 1%
- D. An increase of 1%

5. Two cyclists begin training on an oval racecourse at the same time. The professional cyclist completes each lap in 4 minutes; the novice takes 6 minutes to complete each lap. How many minutes after the start will both cyclists pass at exactly the same spot where they began to cycle?

- A. 10
- B. 8
- C. 14
- D. 12

6. There are 10 stepping stones numbered 1 to 10 as shown at the side. A fly jumps from the first stone as follows: Every minute it jumps to the 4th stone from where it started - that is from 1st it would go to 5th and from 5th it would go to 9th and from 9th it would go to 3rd etc. Where would the fly be at the 60th minute if it starts at 1? (Assume steps are in circular fashion)



- A. 1
- B. 5
- C. 4
- D. 9

7. Mary and John can do a piece of work in 24 day; John and Vino in 30 days; Vino and Mary in 40 days. If Mary, John and Vino work together they will complete work in ?

- a) 10 days
- b) 20 days
- c) 47 days
- d) 45 days

8. Find the day of the week on 16th July, 1776.

- a. Sunday
- b. Monday
- c. Tuesday
- d. Wednesday

9. A man can row a distance of 5 km in 60 min with the help of the tide. The direction of the tide reverses with the same speed. Now he travels a further 20 km in 10 hours. How much time he would have saved if the direction of tide has not changed?

- (a) 5 hrs
- (b) 4 hrs
- (c) 12 hrs
- (d) 6 hrs

10. A father's age was 5 times his son's age 5 years ago and will be 3 times son's age after 2 years, the ratio of their present ages is equal to:

- a) 3:7
- b) 5:11
- c) 10:3
- d) 10:7

11.

- 1) B is mother of D but D is not daughter of B.
- 2) A is son of M and brother of G.
- 3) G is sister of D

Which of the following cannot be referred from the given information?

- (A) B has 3 children
- (B) M has two sons
- (C) G is younger to B.
- (D) A is younger to D

12. A single discount % equal to three successive discounts of 30%, 20% and 10%.

- A. 49.6%
- B. 50.4%
- C. 40%
- D. 60%
- E. None of these

13. In how many ways a team of 11 must be selected from 5 men and 11 women such that the team must comprise of not more than 3 men?

- A. 1565
- B. 1243
- C. 2256
- D. 2456

14. Esha bought 18 sharpeners for rs.100 she paid 1 rupee more for each white sharpener than for each brown sharpener. What is the price of a white sharpener and how many white sharpener did she buy?

- A. Rs. 5,10
- B. Rs. 6,10
- C. Rs. 5,8
- D. Rs. 6,8

15. A man has a job which requires him to work 8 straight days and rest on the ninth day . If he started work on Monday, find the day of the week on which he gets his 12th rest day .

- A. Thursday
- B. Wednesday
- C. Tuesday
- D. Friday

16. The sum of digits of a three digit number is 17 , and the sum of the squares of its digit is 109 .If we subtract 495 from the number ,we shall get a number consisting of the same digits written in the reverse order .find the number.

- A. 773
- B. 683
- C. 944
- D. 863