## びdoubtnut

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## MATHS

## BOOKS - ARIHANT PUBLICATION

## BIHAR

## SIMPLE INTEREST AND COMPOUND

## INTEREST

Solved Examples

1. The sum required to earn a monthly interest of Rs. 400 at $10 \%$ per annum at simple Interest Is
(a) Rs. 45000
(b) Rs. 48000
(c) Rs. 56000
(d) Rs. 40000
A. Rs. 45000
B. Rs. 48000
C. Rs. 56000

D. Rs. 40000

## Answer: B

## D Watch Video Solution

2. The amount of each instalment will
discharge on debit of Rs. 3220 due in 4 yr at 10
\% simple interest is
A. Rs. 700
B. Rs. 1000

## C. Rs. 500

D. Rs. 900

## Answer: A

## D View Text Solution

3. The amount and the compound interest on

Rs. 24000 compounded semi - annually for $1 \frac{1}{2}$
yr at the rate of $10 \%$ per annum are
A. Rs. 27000 , Rs. 3774
B. Rs. 27783 ,Rs. 3583
C. Rs. 27000 , Rs. 3780
D. Rs. 27783 , Rs. 3783

## Answer: D

## D View Text Solution

4. The amount and the compound interest on

Rs. 100000 compounded quarterly for 9 months at the rate of $4 \%$ per annum is
A. Rs. 103030,10 , Rs. 3030.10
B. Rs. 103300.10, Rs. 3030.20
C. Rs. 103030.10,Rs. 3031.10
D. Rs. 103300.10,Rs. 3132.20

Answer: A

D View Text Solution
5. Caculate the compound interest on Rs. 5000
compounded annually for 2 yr and 6 months at the of $10 \%$ per annum .
A. Rs. 1252.50
B. Rs. 1352.50
C. Rs. 1351.50
D. Rs. 1355.50

Answer: B

## D View Text Solution

6. The approximate compound interest on Rs.

5000 for 4 yr of the rate of interest Is $10 \%$ per annum for the first two years and $15 \%$ for the
next two years is
(a) ₹ 3001
(b) ₹ 2001
(c) ₹ 5001
(d) ₹ 3021
A. Rs. 3001
B. Rs. 2001
C. Rs. 5001
D. Rs. 3021

Answer: A
7. The difference between the compound interest and the simple interest on a certain sum at $12 \%$ per annum for 2 yr is Rs. 90 . The sum is equal to
A. Rs. 6260
B. Rs. 6350
C. Rs. 6250
D. Rs. 6255

## Answer: C

## D View Text Solution

8. Given that carbon: $14\left(\mathrm{C}_{14}\right)$ decays at a constant rate In such a way that it reduces to
$50 \%$ in 5568 yr. Then, the age of an old wooden piece In which the carbon Is only
$12.5 \%$ of the original Is equal to
A. Rs. 16704
B. Rs. 16705

## C. Rs. 16604

D. Rs. 16606

Answer: A
( Watch Video Solution

## Exam Booster For Cracking Exam

1. The amount on a sum of Rs. 400 for 3 yr at
simple interest at $5 \%$ per annum is
A. Rs. 460
B. Rs. 415
C. Rs. 435
D. Rs. 412

Answer: A

D View Text Solution
2. A sum of money at simple interest amount to Rs. 1260 in 2 yr and Rs. 1350 in 5 yr , then the rate per cent per annum is
A. 0.3
B. 0.1
C. 0.025
D. 0.05

## Answer: C

## D Watch Video Solution

3. The difference of simple interest of $13 \%$ per annum and $12 \%$ per annum of a sum in 1 yr is Rs. 110. Then, the sum is
A. Rs. 12000
B. Rs. 13000
C. Rs. 11000
D. Rs. 16000

Answer: C

D Watch Video Solution
4. The simple interest on a sum of money at
$10 \%$ per annum for 6 yr is half the sum. Then,
the sum is
A. Rs. 5000
B. not possible
C. Rs. 4000
D. Rs. 6000

Answer: B

## D Watch Video Solution

5. The simple interest on a sum of money for 3 yr at $6 \frac{2}{3} \%$ per annum is Rs. 6750. The compound interest on the same sum at the
same rate of interest for the same period will be
A. Rs. 7200
B. Rs. 7210
C. Rs. 7120
D. Rs. 7012

Answer: B
( Watch Video Solution
6. A certain sum lent out at simple interest
amounts to Rs. 575 in 3 yr and to Rs. 625 in 5
yr . Then, the rate of interest is
A. 0.03
B. 0.05
C. 0.04
D. 0.07

Answer: B

D Watch Video Solution

## 7. The simple interest on a certain sum for 3 yr

 at $4 \%$ per annum is Rs. 48 . The principal isA. Rs. 550
B. Rs. 500
C. Rs. 450
D. Rs. 400

Answer: D

D Watch Video Solution
8. The difference between the simple and the compound interest (compounded annually) on Rs. 1250 for 2 yr at $8 \%$ per annum will be

A. Rs. 18

B. Rs. 2
C. Rs. 8
D. Rs. 4

## Answer: C

## 9. The amount of a certain sum at compound

 interest for 2 yr at $5 \%$ is Rs. 4410 . The sum isA. Rs. 4000
B. Rs. 4200
C. Rs. 3900
D. Rs. 3800

Answer: A

- Watch Video Solution

10. Consider the following statements. If a money is loaned at simple interest then the
money gets doubled in 5 years if the rate of interest is $16 \frac{2}{3} \%$
money gets doubled in 5 years if the rate of interest is $20 \%$
money becomes four times in 10 years if it gets doubled in 5 years of these statements :-
A. I and III
B. Only II
C. Only III

## D. II and III

Answer: B

## D Watch Video Solution

11. If certain sum is doubled in 8 yr on simple interest, in how many years will it be 4 times?
A. 20 yr
B. 12.5 yr
C. 24 yr

## D. None of these

## Answer: C

## - Watch Video Solution

12. A sum of money doubles itself in 10 yr . In
how many years would it triple itself?
A. 20 yr
B. 10 yr
C. 30 yr

## D. None of these

## Answer: A

## D Watch Video Solution

13. The sum of money will amount to Rs. 900 in

4 yr at 5\% per annum on simple interest is
A. Rs. 1250
B. Rs. 900
C. Rs. 750

## D. None of these

## Answer: C

## D Watch Video Solution

14. In what time the simple interest on a sum of money be $\frac{3}{8}$ of the principal with rate of interest $3 \frac{1}{8}$ ?
A. 12 yr
B. $25 / 8 \mathrm{yr}$
C. 5 yr
D. 15 yr

Answer: A

## D Watch Video Solution

15. Out of a sum of Rs. 625 , a part was lent at
$5 \% \mathrm{SI}$ and the other at $10 \% \mathrm{SI}$. If the interest
on the first part after 2 years is equal to the interest on the second part after 4 years, then the second sum (in Rs.) is :
A. Rs. 500
B. Rs. 625
C. Rs. 125
D. None of these

## Answer: C

## D Watch Video Solution

16. A sum was put at simple interest at a certain rate for $2 y$. If the sum had been put at
$3 \%$ higher rate, it would have fetched Rs. 72 more. The sum is
A. Rs. 7200
B. Rs. 1200
C. Rs. 300
D. None of these

Answer: B
( Watch Video Solution
17. The compound interest on Rs. 2000 for 1 yr
at the rate of $8 \%$ per annum, when the interest is compounded semi-annually is
A. Rs. 163.20
B. Rs. 2163.20
C. Rs. 2000
D. None of these

Answer: A

D Watch Video Solution
18. The amount that Ram will pay on Rs. 8000
at the rate of $10 \%$ per annum compounded
half-yearly for $1 \frac{1}{2} \mathrm{yr}$ is
A. Rs. 9261
B. Rs. 8000
C. Rs. 4200
D. None of these

Answer: A

D Watch Video Solution
19. A certain sum invested at $4 \%$ per annum compounded semi-annually amounts to Rs.

7803 at the end of 1 yr . Then, the sum is
A. Rs. 7803
B. Rs. 7500
C. Rs. 216
D. Rs. 10935

Answer: B

D Watch Video Solution
20. Rs. 16000 invested at $10 \%$ per annum compounded semi-annually amounts to Rs.
18522. The period of investment is
A. 16 yr
B. 3 yr
C. $1 \frac{1}{2} \mathrm{yr}$
D. 2 yr

Answer: C

D Watch Video Solution
21. Nagma invested Rs. 6000 in a company at compound interest compounded semiannually. She receives Rs. 7986 after 18 months
from the company, the rate of interest per annum.is
A. 0.1
B. 0.12
C. 0.11
D. 0.2
22. A sum of Rs. 25000 invested at $8 \%$ per annum compounded semi-annually amounts to Rs. 28121.60, Then, the time period is
A. 12 yr
B. 1 yr
C. $1 \frac{1}{2} \mathrm{yr}$
D. None of these
23. A sum of $R s .3,200$ invested at $10 \%$ p.a.
compounded quarterly amounts to $R s .3,362$.

Compute the time period.

> A. $\frac{1}{2} \mathrm{yr}$
> B. 1 yr
> C. $\frac{3}{4} \mathrm{yr}$
D. None of these

Answer: A
24. A sum amount to Rs. 9680 in 2 yr and to Rs.

10648 in 3 yr compounded annually, Then, the
sum and rate of interest respectively are
A. Rs. $8000,3 \%$
B. Rs. $8000,10 \%$
C. Rs. 9000,10\%
D. Rs. 1064.8,10\%
25. If the value of a machine depreciates by
$10 \%$ of its value at the beginning of the year and its present value is estimated as Rs. 10935, then its value 3 yr ago was
A. Rs. 15000
B. Rs. 12000
C. Rs. 11000
D. None of the above

Answer: A
( Watch Video Solution

