

CA Foundation
MAHA JALWA SERIES
Mathematics of Finance

S. No.	Questions	Marks
1.	The S.I on a sum of money is $\frac{4}{9}$ of the principal and the no. of years is equal to the rate of interest per annum. Find the rate of interest per annum. a) 5% b) 6% c) $\frac{20}{3}\%$ d) $\frac{22}{7}\%$	1
2.	How much investment required is yield an annual income of ₹420 at the rate of 7% p.a. by simple interest: a) 6,000 b) 6,420 c) 5,580 d) 5,000	1
3.	In what time will a sum of money double itself at 6.25% p.a. simple interest. a) 5 Yrs. b) 8 Yrs. c) 12 Yrs. d) 16 Yrs.	1
4.	If a sum triples in 15 years of Simple rate of interest, then the rate of interest per annum will be; a) 13.0% b) 13.3% c) 13.5% d) 18%	1
5.	A sum of 44,000 is divided into 3 parts such that the corresponding interest earned after 2 years, 3 years and 6 years may be equal at the rate of simple interest are 6% p.a., 8% p.a., & 6% p.a. respectively. Then the smallest part of the sum will be: a) ₹4,000 b) ₹8,000 c) ₹10,000 d) ₹12,000	1
6.	No. of years a sum 4 times itself at 12% pa at simple interest: a) 20 b) 21 c) 25 d) 30	1
7.	In simple interest, a certain sum becomes ₹97,920 in 3 years, and ₹1,15,200 in 5 years, then the rate of interest is: a) 10% b) 11.2% c) 12% d) 13.6%	1

8.	A certain money doubles itself in 10 years when deposited on simple interest. It would triple itself in; a) 30 years b) 20 years c) 25 years d) 15 years	1
9.	In simple interest if the principal is ₹2,000 and the Rate and time are the Roots of the equation $x^2 - 11x + 30 = 0$ then the simple interest is _____. a) ₹500 b) ₹600 c) ₹700 d) ₹800	1
10.	$\frac{1}{7}$ of a money is deposited at 4% per annum, $\frac{1}{2}$ of a money deposited at 5% per annum and the remaining at the rate of 6%, then total interest gained ₹730 find deposit amount is; a) ₹14,000 b) ₹15,500 c) ₹12,800 d) ₹14,500	1
11.	The difference between CI and SI on a certain sum of money for 2 years at 4% per annum is ₹1. The sum is; a) 625 b) 630 c) 640 d) 635	1
12.	If the sum of money when compounded annually become 1140 in 2 years and 1710 in 3 years at rate of interest. a) 30% b) 40% c) 50% d) 60%	1
13.	The Partners A & B together lent ₹3903 at 4% p.a. interest compounded annually. After a span of 7 years, A gets the same amount as B gets after 9 years. The share of A in the sum of ₹3903/- would have been; a) ₹1875 b) ₹2280 c) ₹2028 d) ₹2820	1
14.	A certain sum of money double itself in 4 years at C.I. In how many years it will become 32 times to itself; a) 16 Years b) 24 Years c) 20 Years d) 12 Years	1
15.	On a certain sum of interest @ 10% p.a., S.I = ₹90 Term = 2 year, Find Compound interest for the same: a) 544.5 b) 94.5 c) 450 d) 18	1

16.	A sum of money amounts ₹7,803 for one year at the rate of 4% compounded semi-annually then the sum invested is: a) 7,000 b) 7,500 c) 7,750 d) 8,000	1
17.	In Compound interest, if the amount is 9 times to its principle in two years then the rate of interest is? a) 300% b) 200% c) 150% d) 100%	1
18.	If the difference between compound interest and simple interest for 3 years is 912 at the rate of 4% p.a. then principle is: a) ₹1,87,500 b) ₹1,87,000 c) ₹1,87,550 d) ₹1,85,700	1
19.	The compound interest for a certain sum at 5% p.a., for the 1 st year is ₹25/- then the simple interest at 5% for the same sum for 2 years will be a) ₹45 b) ₹50 c) ₹53 d) ₹58	1
20.	If an amount is kept at Simple Interest, it earns ₹600 in first 2 years but when kept at Compound Interest it earns at interest of ₹660 for the same period; then the rate of interest and principle amount respectively are: a) 20%; ₹1200 b) 10%; ₹1200 c) 20%; ₹1500 d) 10%; ₹1500	1
21.	The compound interest for a certain sum at 5% p.a., for the 1 st year is ₹25/- then the simple interest at 5% for the same sum for 2 years will be a) ₹45 b) ₹50 c) ₹53 d) ₹58	1
22.	Find effective rate of interest corresponding to the nominal rate of interest 7% compounded monthly is _____: a) 7.26% b) 7.22% c) 7.02% d) 7.20	1
23.	If in two years time a principal of ₹100 amounts to ₹121 when the interest at the rate of r% is compounded annually, then the value of r will be	1

	<p>a) 14 b) 10.5 c) 15 d) 10</p>	
24.	<p>How much will ₹25,000 amount to in 2 years at compound interest if the rates for the successive years are 4% and 5% per year</p> <p>a) ₹27,000 b) ₹27,300 c) ₹27,500 d) ₹27,900</p>	1
25.	<p>How much amount is required to be invested every year as to accumulate ₹6,00,000 at the end of 10th year, if interest compounded annually at 10% rate of interest? [Given: $(1,1)^{10} = 2.59374$]</p> <p>a) ₹37,467 b) ₹37,476 c) ₹37,647 d) ₹37,6674</p>	1
26.	<p>Suppose your mom decides to gift you ₹10,000 every year starting from today for the next sixteen years. You deposits this amount in a bank as and when you receive and get 8.5% per annum interest rate compounded annually. What is the present value of this money:</p> <p>a) 83042 b) 90100 c) 93042 d) 10100</p>	1
27.	<p>Mr. X bought an electronic item for ₹1000. What would be the future value of the item after two years, if the value is compounded semi-annually at the rate of 22% per annum?</p> <p>a) ₹1,488.40 b) ₹1518.07 c) ₹2008.07 d) ₹2200.00</p>	1
28.	<p>The future value of an annuity of ₹1,500 made annually for 5 years at an interest rate of 10% compounded annually is_____ (Given that $((1.1)^5 = 1.61051)$)</p> <p>a) 9517.56 b) 9157.65 c) 9715.56 d) 9175.65</p>	1
29.	<p>What sum should be invested at the end of every year so as to accumulate an amount of ₹7,96,870 at the end of 10 years at the rate of interest 10% compound annually.</p> <p>a) 40,000 b) 4,50,000 c) 4,80,000</p>	1

	d) 50,000	
30.	Determine the present value of perpetuity of ₹50,000 per month @ Rate of interest 12% p.a. is____ a) 45,00,000 b) 50,00,000 c) 55,00,000 d) 60,00,000	1
31.	Find the present value of ₹1,00,000 be required after 5 years if the rate of interest is 9% given that $(1.09)^5 = 1.5386$ a) 78,995.98 b) 64,994.20 c) 88,992.43 d) 93,902.12	1
32.	Determine the present value of perpetuity ₹10 per month for infinite period at an effective rate of interest of 14% p.a.? a) ₹657 b) ₹757 c) ₹857 d) ₹957	1
33.	Find the future value of annuity of ₹1,000 made annually for 7 years at interest rate of 14% compounded annually. Given that $(1.14)^7 = 2.5023$ a) 10,730.7 b) 5,365.36 c) 8,756 d) 9,892.34	1

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