## 250+ Questions on TIME VALUE OF MONEY CA ANAND V KABRA

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## PREFACE

| Opportunity cost: <br> (Economics me Padha hai!) The lender has a choice between using his money in different investments. If he chooses one he forgoes the return from all others. In other words lending incurs an opportunity cost due to the possible alternative uses of the lent money. | Time value of money: <br> Time value of money means that the value of a unity of money is different in different time periods. <br> The sum of money received in future is less valuable than it is today. In other words the present worth of money received after some time will be less than a money received today. since a money received today has more value rational investorswould prefer current receipts to future receipts. If they postpone their receipts they will certainly charge some | Inflation: <br> Most economies generally exhibit inflation. <br> Inflation is a fall in the purchasing power of money. <br> Due to inflation a given amount of money buys fewer goods in the futurethan it will now. The borrower needs to compensate the lender for this. <br> Moderate inflation is good. | Risk Factor: <br> There is always a risk that the borrower will go bankrupt or otherwise default on the loan. Risk is a determinable factor in fixing rate of interest. <br> A lender generally charges more interest rate (risk premium) for taking more risk. | Liquidity Preference: People prefer to have their resources available in a form that can immediately be converted into cash rather than a form that takes time or money to realize. |
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|  | money i.e. interest. |  |  |
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## Vocabulary:

| Abbreviation | Full Form | Interpretation |
| :---: | :---: | :---: |
| P or PV | Principal / Present Value | आज एक बार पै से मिले या फित आज एक बार पै है |
| A or FV | Accumulated Balance or <br> Amount $=$ Principal + Interest or <br> Future Value | भविष्य मे एक बार पै से वापम दिये या फिर भविष्य मी एक बार पै से वापस्म मिले |
| I | value of Interest |  |
| R\% | Rate of Interest / Opportunity Cost / Internal Rate of Return / Discounting Rate / Return on Investment | Expressed on per annum basis |
| N or T | Time Period, years / Months |  |


| Sr. | Question | Formula-write it in you own handwriting | Cal |
| :--- | :--- | :--- | :--- |
| No | pe |  |  |
| Single Cash Flow Questions | आज एक बार पै मे मिले और भविष्य मे एक बार पै के वापस दिये या फिए <br> आज एक बार पै के दिये / और भविष्य मी एक बार पै के वापस मिले |  |  |

single Cashflow - simple Interest Question (WARM UP)

| 1. | Calculate simple interest from Give information: <br> Interest @ $10 \%$ pa on 10000/-for 5 years on SI <br> Interest @ $5 \%$ pa on 10000/- for 10 <br> years on SI <br> Interest @ $7 \%$ pa on 20000/- for 10 years on SI |  |
| :---: | :---: | :---: |
| 2. | Calculate Time under SI <br> In how many years would the amount of Rs. 10000 will be doubled if SI @ 10\% in what time period Rs. 20000 will become 25000 if interest rate is $5 \%$ pa SI |  |
| 3. | Calculate Rate under SI <br> Rs 1,00,000 becomes Rs. 1,30,000 in 2 |  |

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|  | rate. He received Rs. 85,925 after the <br> end of term. Find out the period for which <br> sum was invested by rahul. |  |
| :--- | :--- | :--- |
| 14. | Kapil deposited some amount in a bank <br> for $71 / 2$ years at the rate of $6 \%$ p.a. <br> simpleinterest. kapil received Rs. <br> $1,01,500$ at the end of the term. <br> compute initial deposit of kapil. |  |
| 15. |  |  |
| A sum of Rs. 46,875 was lent out at |  |  |
| simple interest and at the end of 1 year 8 |  |  |
| months the total amount was Rs. |  |  |
| $50,000$. |  |  |
| Find the rate of interest percent per |  |  |
| annum |  |  |
| 16. | What sum of money will produce Rs. <br> 28,600 as an interest in 3 years and 3 <br> months at $2.5 \%$ p.a. simple interest? |  |
| 17 |  |  |



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|  | years. Rate percent per annum simple interestwill be <br> 15\% <br> (b) $12 \%$ <br> 10\% <br> (d) none of these |  |  |
| :---: | :---: | :---: | :---: |
| 23 | $P=\text { RS. } 10,000, I=R S .2,500, R=12 \frac{1}{2} \%$ <br> SI. The number of years $T$ will be <br> $11 / 2$ years <br> (b) 2 years <br> (c) 3 years <br> (d) none of these |  |  |
|  | $P=\text { RS. } 8,500, A=\text { RS. } 10,200, R=12 \frac{1}{2} \% S I,$ $t$ will be. <br> (a) 1 yr .7 mth . <br> (b) 2 yrs . <br> (c) $1 \frac{1}{2} \mathrm{yr}$. <br> (d) none of these |  |  |
|  | The sum required to earn a monthly interest of Rs. 1,200 at 18\% per annum SI is <br> (a) Rs. 50,000 <br> (b) Rs. 60,000 <br> (c) Rs. 80,000 <br> (d) none of these |  |  |
| 26. | A sum of money amount to Rs. 6,200 in 2 years and Rs. 7,400 in 3 years. The principal and rate ofinterest are <br> (a) Rs. 3,800, 31.58\% (b) Rs. 3,000, 20\% |  |  |

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|  | The number of years it would trebles itself <br> is- <br> (a) 50 years <br> (b) 37.5 years <br> (c) 75 years <br> (d) None of these |
| :--- | :--- | :--- |
| 31. |  |
| A person borrowed ₹ 4,000 and after 6 |  |
| months the amount paid was ₹ $4,050$. Find |  |
| the rate of interest. |  |
| (a) $5 \%$ |  |
| (b) $25 \%$ |  |
| (c) $2.5 \%$ |  |
| (d) $20 \%$ |  |
| 32. | ₹ 80,000 is invested to earn a monthly |
| interest of ₹ 1,200 at the rate of - p.a. SI. |  |
| (a) $12 \%$ |  |
| (b) $12 \%$ |  |
| (c) $15 \%$ |  |
| (d) $20 \%$ |  |
| 33. |  |
| A sum of ₹ 46,875 was lent out at simple |  |
| interest and at the end of 1 yr and 8 |  |
| months, the total amount was ₹ $50,000$. |  |
| Find the rate of interest. |  |

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|  | $\begin{array}{llll}\text { (a) } 4 \% & \text { (b) } 5 \% & \text { (c) } 4.5 \% & \text { (d) } 6 \%\end{array}$ |  |
| :---: | :---: | :---: |
| 34. | A sum doubles itself in 10 years. Find the interest rate. <br> (a) $10 \%$ <br> (b) $12 \%$ <br> (c) $15 \%$ <br> (d) $20 \%$ |  |
| 35. | If a sum triples in 15 yrs at simple rate of interest then the rate of interest per annum will be <br> (a) 13.0\% <br> (b) $13.3 \%$ <br> (c) $13.5 \%$ <br> (d) $18 \%$ |  |
| 36. | If the interest on ₹ 2,400 be more than the interest on ₹ 2,000 by ₹ 64 in 4 years, rate of interest is- <br> (a) $5 \%$ <br> (b) $4 \%$ <br> (c) $31 / 3 \%$ <br> (d) $6 \%$ |  |
| 37. | A certain sum of money at simple interest amounts to ₹ 2,800 in 2 years and to ₹ 3,220 in 5 years. The rate of interest p.a. |  |



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|  |  |  |
| :--- | :--- | :--- | :--- |
| 68. | If Rs 5,00,000 invested @ 12\% pa six <br> monthly compounding for three years what <br> interest it will fetch at the end? |  |
| 69 | What is the amount of Rs. 10,000 @ $10 \%$ pa <br> compounded semi annually after 5 years |  |
| 70 | What would the interest if CI @ 15\% pa for <br> two years on 20,000 |  |
| 71 | What is the FV of Rs. 10,000 invested for 5 <br> years @ $9 \%$ pa compounded annually |  |
| 72 | You need 499125 Rs in next 3 years, What <br> initial amount is required to be invested <br> $@ 10 \% ~ C I ~ c o m p o u n d e d ~ a n n u a l l y ~$ |  |

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77. In how many years will a sum of money double at 5\% p.a. compound interest?
15 years 3 months
(b) 14 years 2 months
(c) 14 years 3 months
(d) 15 years 2 months
78. In how many years a sum of money trebles at 5\% p.a. compound interest payable on half-yearly basis? 18 years 7 months (b) 18 years 6 months (c) 18 years 8 months $\quad$ (d) 22 years 3 months

R ko DIVID karna, N ko Multiply Karna
79 Rs. 2,000 is invested at annual rate of interest of $10 \%$. What is the amount after two years if compounding is done

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80.
(a) Annually
(b) Semi-annually
(c) Quarterly
(d) monthly.

Determine the compound amount and
compound interest on Rs. 1000 at $6 \%$ compounded semi-annually for 6 years.

| 81. | Compute the compound interest on Rs. <br> 4,000 for $11 / 2$ years at $10 \%$ per annum <br> compounded half- yearly |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

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| 8,820 at $10 \%$ per annum interest |  |  |
| :--- | :--- | :--- | :--- |
| compounded half-yearly? |  |  |
| 84 | Find the rate percent per annum if Rs. <br> $2,00,000$ amount to Rs. $2,31,525$ in $1 \frac{1}{2}$ <br> year interest being compounded half- <br> yearly. |  |
| 85 |  |  |
| A certain sum invested at $4 \%$ per annum |  |  |
| compounded semi-annually amounts to |  |  |
| Rs. 78,030 at the end of one year. Find the |  |  |
| sum. |  |  |
| 16,000 invested at $10 \%$ p.a. compounded |  |  |


| 87 | semi-annually amounts to Rs. 18,522. Find <br> the time period of investment. |  |
| :--- | :--- | :--- |
| A person opened an account on April, 2011 <br> with a deposit of Rs. 800. The account paid <br> $6 \%$ interest compounded quarterly. On <br> October 12011 he closed the account and <br> added enough additional money to invest in <br> a6 month time-deposit for Rs. 1,000, <br> earning 6\% compounded monthly. <br> How much additional amount did the person <br> invest on October 1? <br> What was the maturity value of his time <br> deposit on April 12012 ? <br> How much total interest was earned? |  |  |
| 88 |  |  |
| Interest rate is $10 \%$ pa, calculate Effective |  |  |
| Rate of Interest in the Following case |  |  |
| compounding done semi annually |  |  |
| compounding done Quarterly |  |  |

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|  | Compounding done Monthly <br> compounding done Annually |  |
| :--- | :--- | :--- | :--- |
| 89 | If Rs 15000 have been invested for 6 <br> months @ $9 \%$ pa compounded monthly, <br> calculate Interest receivable at the end of <br> 6 months <br> interest compounded annually <br> semi annually <br> Quarterly |  |
| 90 |  |  |
| 9 Rs. 5,000 is invested in a Term Deposit |  |  |
| Scheme that fetches interest $6 \%$ per |  |  |
| annum compounded quarterly. What will be |  |  |
| the interest after one year? What is |  |  |
| effective rate of interest? |  |  |


|  | effective rate of interest if an amount of <br> Rs. 20,000 is deposited in a bank for one <br> year at the rate of $8 \%$ per annum <br> compounded semi annually. |
| :--- | :--- | :--- |
| 92 |  |
| Which is a better investment $3 \%$ per year <br> compounded monthly or $3.2 \%$ per year <br> simple interest? |  |
| 93 |  |
| If $P=$ Rs. $1,000, R=5 \%$ p.a, $n=4 ;$ What is  <br> Amount and $C . I T$ is <br> Rs. 100 will become after 20 years at $5 \%$  |  |
| p.a compound interest of  <br> (a) Rs. 250 (b) Rs. 205 <br> (c) Rs. 165.33 (d) none of these |  |




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|  | scrap value realized at the time of sale being Rs. 23,240 and Rs. 9,000 respectively. For how many years the machine was put to use? <br> (a) 7 years <br> (b) 8 years <br> (c) 9 years <br> (d) 10 years |  |
| :---: | :---: | :---: |
| 100 | A machine worth Rs. $4,90,740$ is depreciated at $15 \%$ on its opening value each year. When its value would reduce to Rs. 2,00,000? <br> (a) 4 years 6 months <br> (b) 4 years 7 months <br> (c) 4 years 5 months (d) 5 years 7 months approximately |  |
| 101 | A machine worth Rs. 4,90,740 is depreciated at $15 \%$ of its opening value each year. When its value would reduce by 90\%? <br> (a) 11 years 6 months <br> (b) 11 years 7 months |  |

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|  | (c) 11 years 8 months <br> (d) 14 years 2 months approximately |  |  |
| :---: | :---: | :---: | :---: |
| 102 | The value of furniture depreciated by $10 \%$ a year, if the present value of the furniture in an office is Rs. 21870, calculate the value of furniture 3 years ago. <br> (a) Rs. 30,000 <br> (b) Rs. 40,000 <br> (c) Rs. 35,000 <br> (d) Rs.50,000 |  |  |
| 103 | Calculate Rate of Depreciation under WDV Method: <br> A Machine of Rs. 1,00,000 depreciated for 4 years on WDV method, WDV at the end of 4 th year 52,200. <br> Calculate Rate of Depreciation charged? | Do not use any other Formula, use only CI wala Formula with -ve Rate. Applicable for Company Act Also. |  |
| 104 | If $A=$ Rs. $1,000, n=2$ years, $R=6 \%$ p.a |  |  |

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|  | (c) 800 (d) none of these |  |
| :---: | :---: | :---: |
| 117 | The C.I on Rs. 16000 for $1 \frac{1}{2}$ years at $10 \%$ p.a payable half -yearly is <br> (a) Rs. 2,222 <br> (b) Rs. 2,522 <br> (c) Rs. 2,500 <br> (d) none of these |  |
| 118 | The C.I on Rs. 40000 at $10 \%$ p.a for 1 year when the interest is payable quarterly is (a) Rs. 4,000 (b) Rs. 4,100 <br> (c) Rs. $4,152.51$ <br> (d) none of these |  |
| 119 | The difference between C.I and S.I on a certain sum of money invested for 3 years at $6 \%$ p.a is Rs. 110.16 . The principle is (a) Rs. 3,000 <br> (b) Rs. 3,700 <br> (c) Rs. 12,000 <br> (d) Rs. 10,000 | Equations Bana k solve karna hai |

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|  | Rs. 40 lakhs at his death. If his expectation of life is another 30 years and he starts making equal annual investments commencing now at 3\% compound interest p.a. how much should he invest annually? |  |  |
| :---: | :---: | :---: | :---: |
| 131 | Raja aged 40 wishes his wife Rani to have Rs. 40 lakhs at his death. If his expectation of life is another 30 years and he starts making equal annual investments commencing now at 3\% compound interest p.a. how much should he invest annually? Note: |  |  |
| 132 | If the amount of an annuity after 25 years at $5 \%$ p.a C.I is Rs. 50,000 the annuity will be <br> (a) Rs. 1,406.90 <br> (b) Rs. 1,047.62 <br> (c) Rs. $1,146.90$ <br> (d) none of these |  |  |
| 133 | Given annuity of Rs. 100 amounts to Rs. 3137.12 at $4.5 \%$ p.a C. I. The number of years |  |  |

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the next five years. You deposit this amount in a bank as and when you receive and get $10 \%$ per annum interest rate compounded annually. What is the present value of this annuity?

Note: In most cases Loan payment dues are made at the end of the period only, i.e Annuity Regular. Questions based on Annuity applications can be solved using the Annuity Regular method. For knowledge purpose students may try another method viz., Annuity Due.


| costing Rs. $3,60,000$ for a five year |
| :--- | :--- | :--- |
| period. It has fixed a rental of Rs. 1,05,000 |
| per annum payable annually starting from |
| the end of first year. suppose rate of |
| interest is 14\% per annum compounded |
| annually on which money can be invested by |
| the company. Is this agreement favourable |
| to the company? |
| 147 |
| A company is considering proposal of |
| purchasing a machine either by making full |
| payment of Rs. 4,000 or by leasing it for |
| four years at an annual rate of Rs. 1,250. |
| Which course of action is preferable if the |
| company can borrow money at $14 \%$ |
| compounded annually? |


| 50000. Machine will contribute Rs. 12000 |
| :--- | :--- | :--- |
| per year for the next five years. Assume |
| borrowing cost is $10 \%$ per annum |
| compounded annually. Determine whether |
| machine should be purchased or not. |$\quad$.



## Author's Notes:

Frequency of compounding of Interest shall be matched with interval of Installment paid.
IF installment is paid monthly, then compounding should also be monthly.
If Installment is paid once a year \& Interest is compunded monthly then we are supposed to take Effective rate to solve this Annuity.


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| monthly payment to future generations |
| :--- | :--- | :--- | :--- |
| after his death. He can earn an interest of |
| $8 \%$ compounded annually. How much will he |
| need to set aside to achieve his perpetuity |
| goal? |.

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|  | $25 \%$ higher cost after 25 years with a scrap value realization of Rs. 25000. what amount should be set aside today if interest accumulate at $3.5 \%$ compound interest p.a.? <br> Notes: |  |
| :---: | :---: | :---: |
| 167 | Alibaba borrows Rs. 6 lakhs Housing Loan at $6 \%$ repayable in 20 annual installments commencing at the end of the first year. How much annual payment is necessary. |  |
| 168 © | Alibaba borrows Rs. 6 lakhs Housing Loan at $6 \%$ repayable in 20 semi-annual installments commencing at the end of the first six months. <br> How much payment is necessary in each installment? |  |
| 169 | Johnson left Rs. 1,00,000 with the direction 12 and 15 years should each receive equally a receive after getting 25 years old? | that it should be divided in such a way that his minor sons Tom, Dick and Harry aged 9, after attaining the age 25 years. The rate of interest being $3.5 \%$, how much each son |

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|  | $\begin{array}{ll}\text { (c) Rs. } 578.30 & \text { (d) none of these }\end{array}$ |  |
| :---: | :---: | :---: |
| 182 | $A=R s .1,200 n=12 \text { years } i=0.08, V=\text { ? }$ <br> Write Formula of $F V_{A}=$ <br> (a) Rs. 3,039 <br> (b) Rs. 3,990 <br> (c) Rs. 9,930 <br> (d) $9,043.30$ | Solve on calculator |
| 183 | A company borrows Rs. 10,000 on condition to repay it with compound interest at 5\% p.aby annual installments of Rs. 1000 each. The number of years by which the debt will be clear is $\qquad$ 14.2 years 10 years 12 years none of these |  |
| 184 | Mr. $X$ borrowed Rs. 5,120 at $12 \frac{1}{2} \%$ p.a C.I. At the end of 3 yrs , the money was repaid along with the interest accrued. The amount of interest paid by him is <br> (a) Rs. 2,100 <br> (b) Rs. 2,170 |  |

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|  | (d) Rs. $46,925.40$ <br>  <br> A person desires to create a fund to be <br> invested at $10 \%$ cI per annum to provide <br> for a prize of Rs. 300 every year. Using $V=$ <br> a/I find $V$ and $V$ will be <br> (a) Rs. 2,000 <br> (b) Rs. 2,500 <br> (c) Rs. 3,000 <br> (d) none of these |  |
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| 192 | At what rate per cent compound interest  <br> does the sum of money becomes four fold in  <br> 2 years?  <br> (a) $150 \%$ (b) $100 \%$ <br> (c) $200 \%$ (d) $400 \%$  <br> 193 What is the annual rate of interest <br> compounded annually which doubles an <br> investment in 2 years. <br> Given that $2=1.4142135$. <br> (a) $46.04125 \%$ <br> (c) $41.42135 \%$ <br> (b) $14.142135 \%$ <br> (d) None of these <br> 194  <br> In how many years will a sum of money  <br> double at $5 \%$ p.a. compound interest?  <br> (a) 15 years 3 months  <br> (b) 14 years 2 months  <br> (c) 14 years 3 months  <br> (d) 15 years 2 months  |
| :--- | :--- | :--- |

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| 204 | The difference between compound and  <br> simple interest at $5 \%$ p.a. for 4 years on ₹  <br> 20,000 is -  <br> (a) ₹ 250 (b) ₹ 277 <br> $₹$ (c) ₹ 300  <br> 205 (d) <br> The difference between ci and SI on a  <br> certain sum for 2 years at $6 \%$ p.a. is ₹  <br> 13.50. Find the sum.  <br> (a) ₹ 3,750 (b) ₹ 2,750 <br> (c) ₹ 4,750 (d) None of these  <br> 206 The difference between the S.I and the C.I  <br> on ₹ 2,400 for 2 years at $5 \%$ p.a. is-  <br> (a) ₹ 5 (b) ₹ 10 <br> (c) ₹ 16 (d) None of these <br> The difference between CI and SI on a  <br> certain sum of money for 2 years at $4 \%$  <br> p.a. is ₹ 1 . The sum is  <br> (a) ₹ 625 (b) ₹ 630 <br> (c) ₹ 640 (d) ₹ 635  |
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Cash price Rs. 80,000
Down payment at the time of signing the agreement on 1.1.20XI Rs. 21,622.

5 annual instalments of Rs. 15,400, the first to commence at the end of twelve months from the date of down payment.

Rate of interest is $10 \%$ p.a.
you are required to calculate the total interest and interest included in cash instalment.

| MTP / RTP / Extra Practice Questions |  |  |
| :---: | :---: | :---: |
| MTP 1- NOV 2022-14 Questions Youtube Link >>> PART1 PART 2 |  |  |
|  | Find future value of annuity of Rs. 1000 made annually for seven years at interest rate $16 \%$ compounded annually. [Given that (1.16) $7=2.8262$ ] <br> (a) Rs. 11413.75 <br> (b) Rs. 11000.35 <br> (c) Rs. 8756 <br> (d) Rs. 9892.34 |  |
| $220$ | Assuming that the discount rate is $7 \%$ is p.a How much would you pay to receive $R$ s. <br> 500. Growing at 5\% annually forever? <br> (a) Rs. 2,500 <br> (b) Rs. 5,000 <br> (c) Rs. 7,500 <br> (d) Rs. 25,000 |  |
| 221 | Rajesh deposits Rs. 3,000 at the start of each quarter in his savings account. If the account earns interest $5.75 \%$ per annum compounded quarterly, how much money (in Rs. ) while he have at the end of 4 years? [Given that $(1.014375) 16=1.25654]$ <br> (a) Rs. $54,308.6$ | $\bigcirc$ |

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|  | (d) 7 |  |  |
| :---: | :---: | :---: | :---: |
| $227$ © | Madhu takes a loan of Rs. 50,000 from $A B C$ Bank LTD. The rate of interest is $10 \%$ per annum. The first installment will be paid at the end of five year. Determine the amount (in Rs.) of equal instalments, if Madhu wishes to repay the amount in five years. <br> (a) Rs. 19,510 <br> (b) Rs. 19,430 <br> (c) Rs. 19,310 <br> (d) Rs. 16,630 |  |  |
| 228 | Rajesh invests Rs. 20,000 per year in a stock index fund, with earns $9 \%$ per year, for the next ten years. What would be closest value of accumulated investment upon payment of the last installment? <br> [Given: (1.09)10 $=2.36736$ ] <br> (a) Rs. $3,88,764.968$ <br> (b) Rs. $3,03,858.564$ <br> (c) Rs. $2,68,728.484$ <br> (d) Rs. $4,08,718.364$ |  |  |

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|  |  |  |  |
| :---: | :---: | :---: | :---: |
| 229 | An investment is earning compounded interest Rs. 100 invested in the year 2 accumulated to Rs. 105 by year 4 . If Rs. 500 invested in year 5, will become Rs. by year 10. <br> (a) Rs. 364.80 <br> (b) Rs. 564.80 <br> (c) RS. 464.80 <br> (d) Rs. 664.80 |  |  |
| 230 | An investor is saving to pay off an obligation of Rs. 15,250 which will due in seven years, if the investor is earning 7.5\% simple interest rate per annum, he must deposit Rs. to meet the obligation. <br> (a) Rs. 8,000 <br> (b) Rs. 9,000 <br> (c) Rs. 10,000 <br> (d) Rs. 11,000 |  |  |
| 231 | The value of scooter is RS. 1,00,000 find its depreciation is $10 \%$ p.a. Calculate total |  |  |

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| 248 | A sum of money amount to Rs. 6,200 in 2 years and Rs. 7,400 in 3 years. The principal and rate of interest are <br> (a) Rs. $3,800,31.57 \%$ <br> (b) Rs. $3,000,20 \%$ <br> (c) Rs. $3,500,15 \%$ <br> (d) none of these |  |
| :---: | :---: | :---: |
| 249 | The effective rate of interest corresponding to a nominal rate 3\% p.a payable half yearly is <br> 3.2\% p.a. <br> 3.25\% p.a. <br> 3.0225\% p.a <br> none of these | Coses) |
| 250 | A sum of money gets doubled in 5 years at $\mathrm{x} \%$ simple interest. If the interest was $\mathrm{Y} \%$, the sum of money would have become tenfold in thirty years. What is $Y-X$ (in \%) 10 <br> None of the above |  |

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| (d)none of these |
| :--- | :--- | :--- |
| The compound interest earned by a money |
| lender on Rs. 7,000 for 3 years if the rate |
| of interest for 3 years are $7 \%, 8 \%$ and $8.5 \%$ |
| respectively is |
| (a) Rs. 1750 |
| (b) $\quad$ Rs. 1800 |
| (c) $\quad$ Rs. 1776 |
| (d) $\quad$ none of these |$|$

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|  | (b)Rs. $32,214.60$ <br> (c)Rs. $32,908.41$ <br> (d)none of these |
| :--- | :--- | :--- |
| 256 | A person desires to create a fund to be |
| invested at $10 \%$ CI per annum to provide |  |
| for a prize of Rs. 300 every year. Using $V=$ |  |
| a/I find $V$ and $V$ will be |  |
| (a) Rs. 2,000 |  |
| (b) $\quad$ Rs. 2,500 |  |
| (c) $\quad$ Rs. 3,000 |  |
| (d) none of these |  |
| The future value of annuity of Rs. 2000 for |  |
| 5 years at $5 \%$ compounded annually is |  |
| iven (in nearest Rs. ) as |  |
| (a) $\quad$ Rs. 11,051 |  |
| (b) $\quad$ Rs. 21,021 |  |
| (c) $\quad$ Rs. $1,56,24$ |  |
| (d) $\quad$ Rs. 61254 |  |
| A Maruti zen cost Rs. $3,60,000$. Its price |  |
| depreciates at the rate of $10 \%$ of a year |  |
| during the first two years and at the rate |  |
| of $20 \%$ in third year. Find the total |  |
| depreciation. |  |
| 257 |  |

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|  | (a) Rs. 28,119 <br> (b) Rs. 29,118 <br> (c) Rs. 27,000 <br> (d) Rs. 30,000 |
| :--- | :--- | :--- | :--- |
| 267 | The future value of an annuity of Rs. 1500 |
| made annually for five years at interest of |  |
| $10 \%$ |  |
| $5=1.61051$ compounded annually is (Given that (l.1) |  |$|$



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| 272 |  |  |
| :--- | :--- | :--- |
| The difference between the simple and |  |  |
| compound interest on a certain of 3 years |  |  |
| at $5 \%$ p.a is Rs. 228.75. The compound |  |  |
| interest on the sum of for 2 years at 5\% |  |  |
| per annum is |  |  |
| (a) Rs. 3175 |  |  |
| (b) $\quad$ Rs. 3075 |  |  |
| (c) $\quad$ Rs. 3275 |  |  |
| (d) $\quad$ Rs. 2975 |  |  |$\quad$.

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| (a) | Rs. 5610 |
| :--- | :--- | :--- | :--- | :--- |
| (b) | Rs. 6610 |
| (c) | Rs. 6160 |
| (d) | Rs. 5160 |$\quad$|  |  |
| :--- | :--- |
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