

Time value of money-Concepts and Calculations - - Unit 3 - Week 2

4) Suppose the time value of money is 12% per year compounded semi-annually, the present2 points value, on April 30, 2015, of a sum is Rs. 5,000 what will be the value of it on April 30, 2020?

\bigcirc	Rs.	8954	.24
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- Rs. 6691.13
- Rs. 6690.00
- Rs. 6600.31

No, the answer is incorrect. Score: 0

Accepted Answers: Rs. 8954.24

f V D 5) Let's assume 'P' is the Present worth and 'i' is the annual interest rate of an annuity 'A' for 2 poi annually compounding. For the present worth is equal to annuity, choose the correct answer? (Here 'N is the number of periods)

 $(i+1)^{N} = 1$ $1/[(i+1)^{N}-1] = 1/[i(i+1)^{N}]$ $(1+1/i(1+i)^{N}) = (1/i)$ both (b) and (c)

No, the answer is incorrect. Score: 0

Accepted Answers: both (b) and (c)

6) Swati receives cash in her business as: Rs 1000, Rs.1500, Rs. 2000 and Rs.1200 per year 2 points as discrete amounts at the end of 1st, 3rd, 7th and 8th year respectively. Interest rate is 12 % per year compounded annually. Determine the present worth at zero time of cash-flow?

- Rs. 2536.00
- Rs. 3394.89
- Rs. 3349.89
- Rs. 2500.00

No, the answer is incorrect. Score: 0

Accepted Answers: Rs. 3349.89

7) Shiva's grandmother is planning to retire this year. Her company has offered her a onetime 3 points Retirement payment of Rs.50,000 or a Rs.8,000 lifetime ordinary annuity whichever she chooses. His grandmother is in reasonably good health and expects to live for at least 10 more years. By assuming that 12% annual interest rate is appropriate to evaluate the annuity, calculate the present value?

- Rs. 42.501.78
- Rs. 45,201.78
- Rs. 42,000.78
- Rs. 45.000.78

No, the answer is incorrect. Score: 0

Accepted Answers:

Rs. 45,201.78

8) Compare the present value obtained in (i) and (ii), for Rs.1000 received after the end of 2 3 points years:

(i) if the simple interest is 10% per annum(p.a.) and compounding is annual or (ii) with same interest rate but compounding is continuously.

(i) > (ii) (ii) > (i) (i) = (ii)

None of these	
No, the answer is incorrect. Score: 0	
Accepted Answers: (<i>i</i>) > (<i>ii</i>)	
9) Complete the following, solving for present value, PV:	2 points
 Rs. 4976.37, 368702.69 Rs. 4464.89, 368702.69 Rs. 4464.89, 336000.00 None of these No, the answer is incorrect. Score: 0 Accepted Answers: Rs. 4464.89, 368702.69 10) A student starts saving money at the age of 7 and after 10 years he saved small a which is Rs.986. He has to choose from two banks. First bank offers a compound interrate of 7.4% annually for 8 years and another bank offers continuous compounding at 	rest monthly at a
 8.1% for 9 years? what will be the difference of two banks account at end of their term Rs.264.93 Rs.294.12 Rs.274.59 Rs.214.78 No, the answer is incorrect. Score: 0 Accepted Answers: Rs.264.93 	s?
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