

Unit 2 - Week 1

Course outline

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Week 1

- Introduction to Financial Mathematics
- Important Mathematical Functions and its Characteristics
- Progressions and Series, Growth and Decay Curves
- Statistical Measures
- Problem Solving on Mathematical Functions and Statistical Measures

Quiz : Assignment 1

Solution 1

Week 2

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Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-02-12, 23:59 IST.

- 1) The total interest be on a deposit of Rs. 75000 for 4 years in a savings account yielding 6.5% annual simple interest is 1 point
- Rs. 55500
 Rs. 19500
 Rs. 94500
 Rs. 11550

No, the answer is incorrect.
Score: 0

Accepted Answers:
Rs. 19500

- 2) If your real estate taxes are Rs. 4500 annually and you know that the rate is 3%, what is the value of your house? 1 point
- Rs. 15000
 Rs. 150000
 Rs. 1500000
 Rs. 750000

No, the answer is incorrect.
Score: 0

Accepted Answers:
Rs. 150000

- 3) Which of the following are not the examples of financial assets? 1 point
- Stocks
 Bank Loan
 Bond
 Raw material

No, the answer is incorrect.
Score: 0

Accepted Answers:
Raw material

- 4) A loan of Rs. 3000 carrying 9% interest is to be paid off Rs. 150 a month. The monthly balances and the interest on them would form two arithmetic progressions. The total interest paid is 1 point
- Rs. 236.25
 Rs. 235.25
 Rs. 236.5
 Rs. 237.25

No, the answer is incorrect.
Score: 0

Accepted Answers:
Rs. 236.25

- 5) If we want to form a five-member committee chosen from 10 professors, possible committees can be formed is 1 point
- 352
 30240
 252
 14400

No, the answer is incorrect.
Score: 0

Accepted Answers:
252

- 6) The statistical distribution is given by the following table. 0 points

x_i	61	64	67	70	73
f_i	5	18	42	27	8

The Variance is

- 3.1275
 67.45
 8.213
 67.47

No, the answer is incorrect.
Score: 0

Accepted Answers:
3.1275

- 7) Given the geometric progression 625, 125, 25, . . . find the sixth term. 1 point
- 0.04
 0.08
 0.02
 0.01

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.02

- 8) The correlation between two variables (X and Y) and $\text{Cor}(X,Y) = 1$, then the variables 1 point
- move together in the same direction
 move opposite to each other
 move in X does not affect Y
 move in Y does not affect X

No, the answer is incorrect.
Score: 0

Accepted Answers:
move together in the same direction

- 9) The standard deviation of the following distribution is 1 point
- 5, 6, 5, 6, 9, 4, 9, 12
- 7.21
 3
 2.55
 6.5

No, the answer is incorrect.
Score: 0

Accepted Answers:
2.55

- 10) The scientific notation of 0.000359 is 1 point
- $359(10)^{-6}$
 $35.9(10)^{-5}$
 $3.59(10)^{-4}$
 $0.359(10)^{-3}$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $3.59(10)^{-4}$