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MTH302 Assignment 1 Solution

Fall 2026

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MTH302 Assignment 1 Solution

Fall 2026

Name: VU Learning Hub

The due date is 15 November 2026.

Lectures 1 to 8

Section incharge is Rahib Raza.

Question 1

The annuity pays Rs. 12000 in each period for 25 periods at 7 percent interest.

First find (1.07) raised to the power 25 which is 5.4274.

The accumulated value factor is s angle 25 = (5.4274 minus 1) divided by 0.07 = 63.2490.

Multiply the payment by the factor to get S = 12000 x 63.2490 = Rs. 758988.45.

The discounted value factor is a angle 25 = (1 minus 1 divided by 5.4274) divided by 0.07 = 11.6536.

Multiply the payment by the factor to get D = 12000 x 11.6536 = Rs. 139843.00.

Question 2

The salesman borrows Rs. 400000 at 9.5 percent per year for 7 years and 8 months.

Convert the time to years. 7 years and 8 months is 7 + 8/12 years which is 23/3 years.

Simple interest is found by P x R x T divided by 100.

So Simple Interest = 400000 x 9.5 x 23 / (100 x 3) = Rs. 291333.33.

Question 3

House Rent is 45 percent of the Basic Salary and it is Rs. 26000.

Basic Salary = 26000 / 0.45 = Rs. 57777.78.

Conveyance Allowance is 15 percent of the Basic Salary so it is 57777.78 x 0.15 = Rs. 8666.67.

Utility Allowance is 25 percent of the Basic Salary so it is 57777.78 x 0.25 = Rs. 14444.44.

Add the three allowances to get Total Allowances = 26000 + 8666.67 + 14444.44 = Rs. 49111.11.

Gross Salary = 57777.78 + 49111.11 = Rs. 106888.89.

Question 4

The shop buys 25 packets of paper and each packet costs Rs. 300.

List Price = 25 x 300 = Rs. 7500.

A trade discount of 18 percent is given so the price becomes 7500 x 0.82 = Rs. 6150.

A cash discount of 5 percent is given after that so the final amount is 6150 x 0.95 = Rs. 5842.50.