FA Module 14 Pension fair value assets practice exam questions

(The attached PDF file has better formatting.)

A defined benefit pension plan has the following entries for 20XX.

•	Employer contributions	72
•	Current service costs	49
•	Past service costs	52
•	Discount rate used to estimate plan liabilities	3%
•	Benefit obligation at beginning of year	5,134
•	Benefit obligation at end of year	4,957
•	Actuarial loss due to increase in plan obligation	52
•	Fair value of plan assets at beginning of year	4,698
•	Actual return on plan assets	295
•	Expected rate of return on plan assets	4%

Question 14.1: Total service cost

What is the total service cost?

Answer 14.1: 49 + 52 = 101

(total service cost = past service cost + current service cost)

Question 14.2: Interest cost

What is the interest cost on the benefit obligation?

Answer 14.2: 3% × 5,134 = 154.02

(interest cost on the benefit obligation = discount rate × benefit obligation at the beginning of the year)

Question 14.3: Pension benefits paid

What are the pension benefits paid during the year?

Answer 14.3: 5,134 – 4,957 + 52 + 154.02 + 101 = 484.02

(pension benefits paid during the year = benefit obligation at the beginning of the year – benefit obligation at the end of the year + actuarial loss (or – actuarial gain) + interest expense on the benefit obligation + total service cost)

Question 14.4: Fair value of plan assets

What is the fair value of the plan assets at the end of the year?

Answer 14.4: 4,698 + 72 + 295 - 484.02 = 4,580.98

(fair value of plan assets at the end of the year = fair value of plan assets at the beginning of the year + employer contributions + actual return on plan assets – pension benefits paid)

Question 14.5: Periodic pension cost

What is the periodic pension cost for the year?

Answer 14.5: 101 + 52 + 154.02 - 295 = 12.02

(periodic pension cost = total service cost + actuarial loss (or – actuarial gain) + interest expense on the benefit obligation – actual return on plan assets)