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Exam : **IFoA_CAA_M0**

Title : Module 0 - Entry Exam

Version : DEMO

1 .1/5 of actuarial students like skiing. 2/5of actuarial students like snowboarding. 1/3 of actuarial students like skiing and snowboarding.
Calculate the proportion of actuarial students that like skiing or snowboarding.
A)
$-\frac{4}{15}$
B)
$\frac{4}{15}$
C)
$\frac{3}{5}$
D)
$\frac{14}{15}$
A. Option A
B. Option B
C. Option C
D. Option D
Answer: B

2 .Calculate the sum of the following non-terminating progression:
2/10, 2/40, 2/160, 2/640,...
A. 0.174
B. 0.266
C. 0.267
D. 0.406
Answer: C

3 .For random variable X, use the following statistics to calculate its coefficient of skewness based on central moments.
E(X) = 3.940
E(X2) = 21.466
skew(X) = E[(X -)3] = 6.008
A. -0.415
B. 0.060
C. 0.415
D. 0.768
Answer: C

4 .Identify the condition that fully describes the existence of independence between two events A and B.
A. P(A|B) = P(A)/P(B) and P(B|A) = P(B)/P(A)
B. P(A|B) = P(A) - P(B) and P(B|A) = P(B) - P(A)
C. P(A|B) = P(A) and P(B|A) = P(B)
D. P(A|B) = P(A) + P(B) and P(B|A) = P(B) + P(A)
Answer: C

5 .Determine which of the options is equal to log(3) - 2log(x+1).
A)

$$\log\left(2x + 1\right)$$

B)

$$\log\left(\frac{3}{2x + 1}\right)$$

C)

$$\log\left(3(x + 1)^2\right)$$

D)

$$\log\left(\frac{3}{(x + 1)^2}\right)$$

A. Option A
B. Option B
C. Option C
D. Option D
Answer: D