# PASSTCERT

## QUESTION & ANSWER

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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