

Probability Theory- Exercises and Solutions

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**Exercise1 :**

The following figure represents a Venn diagram that includes the sample space and two events A and B:



Where,  $P(a) = 0.32$  ,  $P(b) = 0.1$  ,  $P(c) = 0.28$  ,  $(d) = 0.2$  .

1. Check out DeMorgane's Laws.
2. Calculate the probabilities :  $P(A)$  ,  $P(B)$  .
3. Calculate  $P(A \cap B)$ .
4. Calculate  $P(A \cup B)$  in two different ways.

**Solution :**

- 1.** DeMorgane's Laws state that:  $(\overline{A \cap B}) = \overline{A} \cup \overline{B}$  ,  $(\overline{A \cup B}) = \overline{A} \cap \overline{B}$

Check the *first law*:

$$\begin{aligned} \overline{(A \cap B)} &= \Omega - (A \cap B) = \Omega - \{c\} = \{a, b, d, e\} \\ \overline{A} \cup \overline{B} &= \{a, d, e\} \cup \{a, b\} = \{a, b, d, e\} \quad \Rightarrow \quad \overline{(A \cap B)} = \overline{A} \cup \overline{B} \end{aligned}$$

Check the *second law*:

$$\begin{aligned} \overline{(A \cup B)} &= \Omega - (A \cup B) = \Omega - \{b, c, d, e\} = \{a\} \\ \overline{A} \cap \overline{B} &= \{a, d, e\} \cap \{a, b\} = \{a\} \quad \Rightarrow \quad \overline{(A \cup B)} = \overline{A} \cap \overline{B} \end{aligned}$$

- 2.** Calculating the probabilities :  $P(A)$  ,  $P(B)$

$$P(A) = P\{b, c\} = P(b) + P(c) = 0.1 + 0.28 = \mathbf{0.38}$$

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**R Bogdan**



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