DAILY ASSESSMENT FORMAT

Date:	**17-06-2020**	**Name:**	Poorvi j gowda
Course:	**mysql**	**USN:**	4AL17EC071
Topic:	**completed**		6^{th} b
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FORENOON SESSION DETAILS

Date:17june2020
Course: statistical learning

Name:poorvi j
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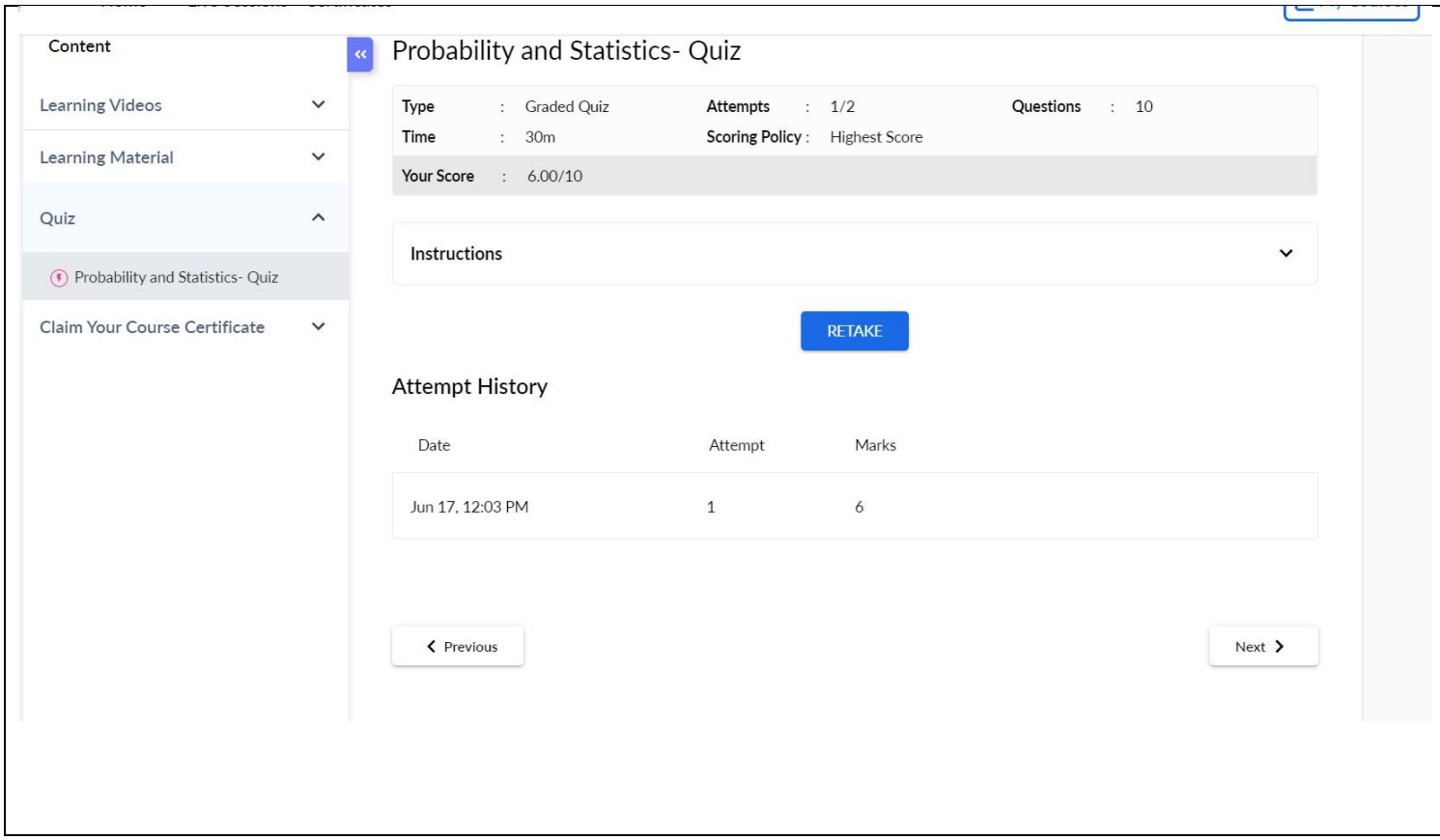


Topic:rules for probability theory. Bayes theorem. Normal distribution.

Sem&Sec:6th b

AFTERNOON SESSION DETAILS

17/06/2010

→ Rules of Probability calculation

1) Addition Rule - Mutually Exclusive Events

$P(A \cup B) = P(A) + P(B)$

2) Multiplication Rule

Events are not independent

$P(A \cap B) = P(A) \cdot P(B|A)$

3) 85 men and 33 women, 36 are teetotalers. 40% of the women are non-smokers & 18% of the men smoke but don't drink. 13% of the men and seven % of women drink but do not smoke.

How many, both drink & smoke? What is associated probability?

→

$M + \bar{M} = 70$.

$D + \bar{D} = 70$

$D = 70 - 36 = 34$

$D = DS + D\bar{S} = 34$

$PS = 34 - D\bar{S} = 34 - 20 = 14$

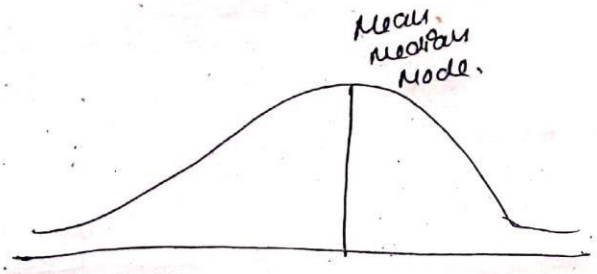
$P\bar{S} = MD\bar{S} + \bar{M}D\bar{S}$

$13 + 17 = 30$

Bayes theorem

$$P(B_1/A) = \frac{P(A/B_1)\,P(B_1)}{P(A/B_1)\,P(B_1) + P(A/B_2)\,P(B_2) + \ldots + P(A/B_k)\,P(B_k)}$$

Normal Distribution



Properties

→ ~~this is the~~ statistical use a exp "Bell shaped Distribution

* Mean, Median, Mode ~~are~~ all are equal.

* ND has 2 parameters.

In the usual notation the probability density function of Normal Distribution is given

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}}\, e^{-\left[\frac{(x-\mu)^2}{2\sigma^2}\right]}$$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