- Rurs 1 -

Notarea · Lab/Som 20% (R)

L) teste meanumbole

Provet 30% (echipa 2 pors)

L) în sesiume + presentare orala

• Examen (50%) 3 h 50%

(sigur subpunct R)

fara materiale!

1 pct. of.

Britariel de promorabilitate

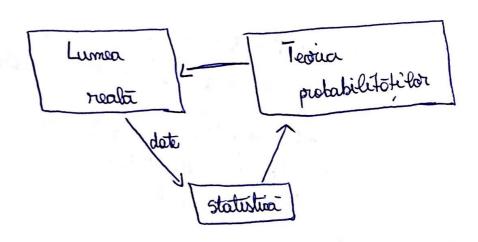
Nota 25 (50p)

Nota examen = 2.5 (25p)

Bonus - Later 1.5p.

Introducire în Probabilitate & Statistica

Machine Learning



Exemplu:

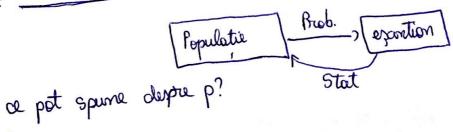
Urma ou bile albe si megre proportice below albe este $p \in (0, 1)$ mecumescut

Prob. p=14% extragom 10 bile sa avern 4 de culode a?

Stat:

Am extras 10 bile (ou introvoce)

obs! 4 sevil a



Câmp de probabilitate, operatie cu evenimente

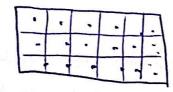
Exporiment abater = sir de activni core conduc la un (fernamen) rezultat necumorait inainter raalizarii lui

_r - multimea ensonimentelor elementare | spatial starilor / spatial probelor

1 = 1,2,3,4,5,63 (Aruncatul au zorul)

@ E_L Descriment elementar

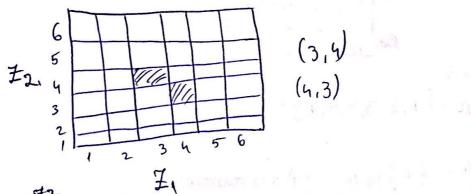
- a) mutual exclusivitate
- 6) colective exhaustive (al putin un el are la)



- 1) H si aforta plouta 2 #T si aforta plouta
- 3 H si aforta mu planta

Vramoa mu infuentera H/T

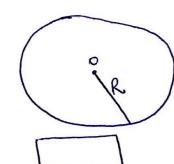
2 Daia zoruri



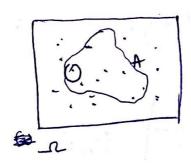
E. 11.3

(3) Devrata reachoimlui

Ry



Def: TO submultime A = 12 S.m. eveniment. Spunem aa evenimentul A se realizeera daa in wuna desposurarii experimentul aleador rez. W. E.A.



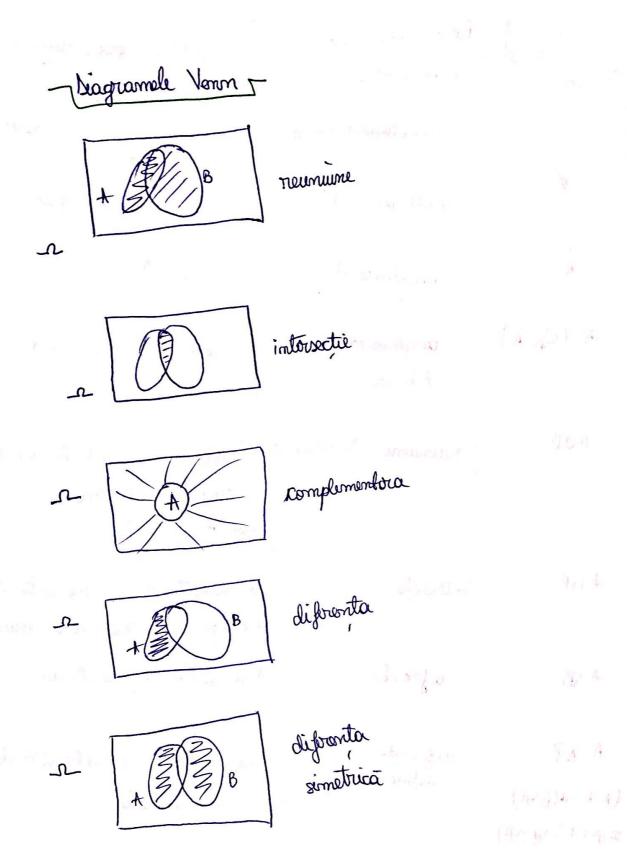
r={1,2,3,4,5,6}

 $A = \{4\} \in \mathbb{R} = \} A s-a realizat$

A= {2,4,6} e-2

A= {2,3,5} € 2

	Teoria multimelor	Teoria probabilitation
12	multimed_2	scatuil stoulor
ω	un clamat din a	exemimental elementor
ø	multimer vida	ex commental imposibel
4	multimece A	e4.4
4° (CA, Ā)	amplementora lui	ev. combrat al luit
AUB	tion_a	cel pertin unul din ex. A sau B se realizearea. (ex. A sau B)
AnB	intersectie	evenimental A si exonumental B (ev. A si B se realizeora simultam)
AVB	difrança	A se realizeata, don B mu
A BB (+B) U(BA) =(AUB) (ANB)	diforenta simeliaca	sant san b se realization dors



Def. Multimea ex possible prociate exp. abator au sp. storibor a est o submuttime of $\subseteq P(x)$ core vorificar woundtoorde prop:

algebra
$$\begin{cases} a) & x \in \mathcal{F} \\ b) & doea & A \in \mathcal{F} = A \in \mathcal{F} \end{cases}$$

$$(x) & doea & A, B \in \mathcal{F} = A \cup B \in \mathcal{F}$$

$$(x) & \phi \in \mathcal{F}$$

Exp: Aruman au banul pânie obtinem pentru prima oorat! $L = \{1, 2, 3, \dots \} = N^{*}$ TH

t=f am obtinut pt. prima ova H dupa un. mr. por de ori g=f g=f

c) daca (Am) m ∈ 7 atunci U A m ∈ I

Fore verifica a), b) si c') s.m. T-algebra.

(r, +) spatie probabilizabil (spatie māsurabil)

exp. aleator —) (r, 7, P)
L) probabilitation.