FIELDS OF BYCHOLOGY 1. Biopsychology - neuroscience 2. Clinical - diagnosis, pathology, behaviour 3. Social - how a prindividual behave in a social situation 4. Industrial & Organizational - applied in the workspace : hiring /promotion 5. Cognitive - thinking, memory, problem solving 6. Health - hospital setting : prepare ppl for surgery, poin management getting ppl to behave in a particular way PRACTISIONERS 1. Clinical 2. Counselling 3. Educational Psychologist Ly a good test is discriminatory, reliable 4. Industrial Organizational 5. Sports 6. Social Work 7. Environmental Psychology - architecture METHODS *. Formulating hypotheses and theories inspiration from previous research → Based on personal observation · Collect Data 1. Observational Method 4 researchers observe people and records: measure / impressions of their behaviour Einter-rated reliability 4 archival analysis 2. Correlational Method: to understand relationships between variables (-) correlation * causation, confounding you. 3. Surveys Language representative samples [sampling errors]

	Page No.:O2
11 11 11 11 11	19 07 12
-	4. The Experimental Method
-	- Answering causal questions
-	- 2 conditions, identical except for independent variable
	* involves direct intervention from researchers
	CAMPANA P BUS
	man a stronger - and the state of the
	Company and other state of the second
	Internal Validity: degree of control over extraneous variables other than IV
Toode	- ensured through random assignment of participants
Trade off	ensurea maggin instability
1	External Validity: the extent to which results generalize
-	proper representative sample.
-	→ lab test is artifactual
	278nuit Ini N
	* Replication in both lab and field settings
NOTE	Most American studies on psychology involve sophomores
	dataplicate to the state of the
	Ethical Issues
	Seview board
	in 11T → IEC : Institute Ethics Comittee
	2
	BRAIN
	NEUROIMAGING
	-> PET: Positron Emission Tomography
	- Depicts brain activity by showing the consumption of radioactive gloss MRI: Mannetic Record of T
	→ MRI: Magnetic Resonance Imaging not good for real-time but great
	injection of contrast imag agents
,	->fMRI: comparing MRI after an interval of a few seconds
	A LABOR TO THE PARTY OF THE PAR
	EVOLUTION OF BRAIN
	Spinal Chord -> Hind brain -> Mid Brain -> Fore Brain (cortex)
	(cerebellum, medula (c
	The state of the s

	Page No.: 03
	FOREBRAIN
	Neurons + Gital Cells
	association cortex : cluster of glial cells
	- Broca's Area: related to speech production (left hemisphere)
	- Prefrontal Cortex: Thinking, planning, executive, rational (more left prefrontal
	- Somatosensory Cortex: Sensory information
	- Wernicke's Area: under language comprehension
	- Visual Cortex: Optic Nerve - Occipital Lobe
	- Auditory Cortex : Hearing
	> Profound deafness: damage /non-functional auditory nerves
	* Frontal Labe: speaking, muscle movement, planning, judgements
	Motor Cortex: Kontrols movements
	* Fingers and Mouth - more contrical space
	* Parietal Lobe : sensory cortex (skin senses, movement of body parts)
	* Temporal Lobe: auditory cortex
	* Occipital Lobe - Visual cortex
NOTE	Schizophrenia is involves auditory hallucinations - activations in temporal lobe
691	MID BRAIN
	→ limbic system (Centre of Emotion)
	- Hypothalamus: below thalamus,
	hunger, thirst, body temp, sexual behavior
	Pleasure Center - expt. by ads & Milner, 1954
	+ · - Olfactory Bulb
	- Amygdala: seat of emotion legioned a monkey's brain - docte other raged
	rage kfear
	- Pituitary Gland: master gland of endocrine system
	- Hippocampus: explicit memory

		Page No. C4
		26 07 19
	HIND BRAIN	Marie Company
	- Brainstem: central core	De la
	- Medulla: heartheat and breathing	
	Medolia hearthear and ares	
	- Pons -co-ordinate majements (balance)	
	- Crossover Point: connection between both hemispheres of brain	
PS 379		
	-Thalamus: Top of brainstem	
-	4 brain's senson switch board	
	- receives signal and sends to higher	Aug to
	- The second of	artina -
-	in the management	
	- Cerebellum: co-ordinates voluntary movements	
	Memory discriminate sounds, textures judge	rme
	and the same of th	123-0034
	NEUROTRANSMITTERS	and the same
	Acetylcholine: muscle action, learning, memory	
25.55	Dopamine movement, learning, emotion	
	Serotonia mood, hunger, sleep, arousal	Arrama N
	Norepinephrine: alerthess, arousal	
	GABA (gamma-Aminobutyric acid) : inhibitory role	
*	Glutamate: excitatory role	
lal des	made an experience of profession will be a second of the s	diporting 1
NOTE	Lack of Dopamine: Parkinson's Excess Oppamine: Schizophra	enia
		mine supressor
	psychoses Tardive d	
		73 Amesia
	The state of the s	
	Brain's Plasticity: Patterns are retained	
	Hemispherectomies: Other side of brain compensating	
	A SHE AND REPORTED TO SHOW A SHOW AND ADDRESS OF THE SHEET OF THE SHEE	
	Blind : better touch, acute hearing	
	Deaf: better peripheral vision	

	Page No.: O5	
	30 07 18	
1	E CONSCIOUSNESS	
T	La Anesthesiology	
Y	Alertness / awareness of ourselves and the environment	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Dennet: color-phi phenomenon	
	- Awareness comprises the memory trace &	
	Hippocampal complex: short term episodic memory	
	· recollection when we stimulate memory (both recent and remote)	
	· Hippocampal damage: affect recall of recent information	
1	- Oliver sacks, "Greg" brain tumor	
r		
	→ Visual Perception	
	· Crick and Koch : perceptual unity	
	· Cat's visual cortex : oscillations; neurons tining in synchrony	
-	· Thalamus - cortex - reverberatory circuit : for very short -term mem	1000
	The series of th	
		lower
	Sight Unseen - case of DF , higher consciousness (ventral seastream)	(dorsal)
	different streams for conscious perception and visitavisually guide	ed pehaviour
	· Wegner (2002) : responding to the second before conscious to tap	
	· Soon (2008): can predict decision 7s before participants	
	CIRCADIAN & RYTHMN	
lang	4 body clock	
	4 brightness control: bright light activates retinal protein	
	Superchiasmatic (in hypothalamus)	
100	Pineal Gland	
	[modulates melatonin] sleep-inducing he	nimone '
	→ Dement: Microsleep (when sleep deprived) > lose consciousness	37.0%
	Function of Designs	1 1990
	21-35	
	attention of page of the contract of the contr	

13 113	Page No.: 06
-	31 07 18
	SLEEP
	REM Sleep Rapid Eye Movement
	- Dream State
	- EEG similar to awake state (& waves)
-	Stage - 2. :
	-Get sleep spindles (dark regions in EEG)
	- Body temp drops, heart rate slows
	Stage-3:
	- Parsinoma Parasomnias (sleep walking, night terrors, talking, beduetting
	- Transition between non-REM and REM
	- Slow waves (8 waves) interspersed with smaller, faster waves
- Louis	and de property to the potential que restrict of the section of
	Stage - 4:
1	- Deep Sleep (8-waves) low freq, high troughs and peaks
	- As we go to end of sleeping, Stage - 4 is not reached
	the set of the section of the sectio
	Cycle between Stages
3	REM - appear like awake
3	· heart rate increases, rapid breathing
	· no body movement (brain stem blocks wave to from going down spinalds
,	Lucid Dreaming (rare)
,	- can control dreams
	- Sleep paralysis > cannot move, become conscious to this
	"In REM-deprived partients: REM 'compensates' when later allowed
NOTE	Sleep Inertia: Lethargy / Drowsiness when woken
	4 Disturbing REM
	Function of Dreams
	i) Filing memories "Echo"
	ii) Makes sense of neural static
	iii) Provide periodic stamuli

1		Monozygotic twins are said to have similar sleep patterns	
18		Monozygotic twins are said to have similarly page No 07	
		02 08 18	
		Freud's Theory	
	1	- Dreams are psychic safety valves (let out emotions)	
		- manifest content : literal content/storyline	
	-	- latent content : symbolic meaning of the literal content' [unremembered]	
	NO.	TE - Sleepwalking in Stage 4	
		- When body temp. falls, sleep is induced	
1		- Sleep protects immunity	
1		- Depression /Old Age - disturb circadian rythma	
		- Afternoon naps - does not disturb circadian rythma	
vettings		- cultural influence (eg. siestas)	
		another ted then the terms it is an against	
2		Narcolepsy - sleep attack (of ~5min)	
		- not related to sleep deprivation	
-		- Orexin not regulated properly (neurological disorder)	
-		Sleep Appea - Stop breathing during sleep. DANGEROUS!	
		toutaken botoph ?	
		DRUGS THE PARTY OF	
		Psychoactive Drugs: Change perception	12
		TSYCHOLITING CHOS	
		O and a state of the state of t	
chard	Ī	Depressants lower neural activity	
-		4) Alcohol + da	
-		- disinhibition (lower consciousness, self-awareness)	
-	ber 1	- hippocampus / cerebellum = drunken gait (lack of co-ordination)	
		- low REM sleep	X
		4 Barbithates	
		- tranquilizers	5
1		- FATAL if combined with alcohol	
		4 Opiates	
		- morphine /heroin	
		- brain stops producing endorphins	R
		to natural opiate	
		causes runners high	

14	
-	Page No O8
=	
-	Stimulants Energy +
-	4 Hearts Rate 1, Breathing 1, dilated pupils, Energy 1
-	4 Caffine, Nicotene Laffects acetyl choline, dopamine & epinephrine [ADDICA]
	4 Methamphetamine
	- dopamine release → Euphoria → Reduces baseline dopamine
	→ Cocaine
	- affects dopamine/seretonin/norepinephrine
	L rush then crash
	- Hallucingens
	LSD : vivid hallucinations
	→ Marijuana (aka cannabis): mild hallucinations
	Habituation: Same dose but less effect ⇒ causes addiction
-	Habituation: Same dose but less cries
	Other Causes of Addiction in some people
	i) Some biological influence (eg. predisposed to alcoholism * genetic)
	· Adopted individual
<u></u>	- correlation with problem in one of biological parent
	ii) Social / Psychological influences Stress, depression
	cultural influences
	(overestimation of usage) Peer pressure
	Annual valvening in the Adda A
- NOTE	In Near Death Experience; 12-40% of people heart has
	Hallucinatory action of brain (oxygen deprivation)
	and the same of th
	LEARNING
	Classical Conditioning
-	- learning through association
-	- Pavlov: Expt. with digestive system
-	US: unconditioned stimulus, UR: unconditional response
-	

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	US (food) UR (salivation)
	Neutral S (tone) no response
	US + Neutral S UR
	Neutrals UR
	The state of the s
	higher order conditioning
	light + tone 2 nd order conditioning
	light salivation
	weaker than 1st order conditioning
	position of the R - section of
	- Field (2006) : cartoon characters (ice cream/brussel sprouts)
	- Olsen & Fazio (2001) : attitudes to Pokemon (+ve/-ve words)
1 11 11	a sold water water water plants have all self-
	· Extinction : diminishing response when the CS occurs repeatedly without the US
	·Spontaneous Recovery: reappearance of weakened CR after a pause
	Acquisition 1 spontaneous extinction recovery
	man and - or -
	· Generalisation - Paulou : diff tone also worked
	- Pollak et al (48): Abused us control responsible n's response
azak sari 1	to an angry face
Agree .	· Discrimination
	Are the laws of learning universal?
	- Biological prelisposition
	+ natural stimulus: learn associations that enhance its survival
	expt: " Garcia & Roziling (1906) - were studying effects of radiation on mice in plastic container
	- Taste aversion associated with sickness among rats = DELAY
	- Aversion only to food NOT sight & sound (taste)
	Gustavision et al ('74-76) coyotes & wolves poisoned sheep carross - Prevented baboons from raiding gardens
die de la constante de la cons	- Prevented baboons from raiding gardens

	Page No.: 10 07 08 18
	Application of Classical Conditioning
-	→ Drug Use: places/people associated with a high
-	Antabuse (disulfiram) - wearing off alcohol
-	- Placebo - Placebo - Subjective placebo effect: portient 'feels' better
-	Subjective place bo effect: immune system gets rallied & actually sel
-	All and III morning or
-	- Watson & Rayner - Little Albert : 11 month old toddler white mouse + laud noise (harmen
-	a howling at any white firmy object
	in the state of th
-	-> got fired -> awent to advertising
-	Maxwell House Coffee Break
	→ Advertising
	- Pair neutral stimulus with an affective stimulus (UCO) repeated
10	* De Beers Diamond
	· Japan's Valentines Day + White Day chocolotiers toy shops
	and the second of the second o
_	Operant Conditioning
	- Action of learnier makes change in the environment
b qtb	- Reinforcement
+	+ve : Reward > increases likelihood of event occurring [
(
	- Punishment: follows response > decreases likelihood of event occurring [finels
0	- Omission of Reinforcement: stop the reinforcement to decrease likelihood of event
	[notv]
	. Thorndike - The Law of Effect
	10.17 (3) 70 (4)
	B.F. Skinner Skinner's Box
	Similar S 86X
3000	Behaviour Shaping : reinforcers gradually guide the animal's behaviour
	successive Approximations
	. Kats softing at a
	The state of the s
	intermittent (eg. fishing OR pamble)
0	

	12)	
	(6)	
Page No.: 10		
07 08 18		Page No. 11 O9 08 18
		Schedules of Reinforcement
		(i) Fixed Ratio Schedule
		(ii) Variable Ratio Schedule: High levels of responding
		(iii) Fixed Interval Schedule: Stop - Start pattern (rapid responding mor remo.)
actually get better		(w) Variable Interval Schedule: Slaw-Steady responding
soise (hammer on		· Latent learning: learning that becomes apparent only when there is some
- firmy object		
		· Cognition - Expectancy
		Observational Conditioning.
		-Modeling: Observe and imitate models
(cs) repeatedly		- Mirror Neuron : Rizzolati, Parma Italy
		· Macaque Monkeys - some neurons in inferior frontal cortex fire when they pick
		peanut AND also when seeing person pick up peanut
		. 10% of neurons have mirror property in inferior frontal cortex and inferior parietal works
		. 10% of neurons have mirror property in literal instantions the social meaning of
		· Specialized to understand not just actions but also intentions, the social meaning of
		their behavior and their emotions
		expt. Bandura-Bobo Doll expt.
		- Child watches adult aggresively play with Bobo Doll
		- Then brought to another room with toys, then foustated them to keep them back (fosthers)
noise]		- Then brought to another rects withers)
[fine/spankj		- When brought back to the first room, initated adult's violence
d of event		
EnoTVI	NOTE	Meta-Analysis: Quantitative Review
	140.12	Prolonged exposure to violence desensitizes viewers
		Prolonged exposore to a second to the second
		MEMORY See
		The Ebbinghaus Forgetting curve: made up 3 lettered words. Br
5 behaviour		Greatest drop in recall in 2 by 20 min mark
		Serial Position Effect - Bea Primary Effect start
		Recency Effect end
		Saving: Rehearsing after completely forgetting is slightly faster
	transition of the same of the	

	Page No.:1
	MISINFORMATION EFFECT
	* Loftus & Palmer - film of traffic accident
	+ Loftus & Palmer - film of traffic accident - How fast were the cars going when they smashed /collided/banged/
	- After I week, do you remember seizing any broken glass?"
	- After I week, do you remember scening
	Gactually NOglass smashed 7 6 Acquiscies
	12 14
	No 34 43 44 T Post event Weapon Intoxication, Suggestibility
	Frequitness Testimonies: into
	Perception + What happened next => taken as Imemory (not Untaryle
	* Gonsalves et. al - Visualising something and actually perceiving some
	4 Gonsalves et al - Visualisting server
RUBBISH	- Repressed Memory: Therapists "retri recover memory"
RUBBISH	activate similar brain areas.
RUBBISH	- Repressed Memory: Therapists "retri recover memory" - Source Amnesia: Remember into ; but forgetting source Recall VS Recognition
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RUBBISH	activate similar brain areas. - Repressed Memory: Therapists "retri-recover memory" - Source Amnesia: Remember info; but forgetting source Recall VS Recognition Context Effects: Place Congruent Memory Mood: Mood Congruent Memory (NOTE: good mood impediately) Alcohol NEUROBIOLOGY OF MEMORY
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1	
	(8)
8	
8 8	
	Page No.: 15
	FORGETTING
4.0 Centacted	
4 o Centage	· Encoding Failure - Attention to detail
21.3	· Storage Decay - Fading
	· Retrieval Failure - 'Tip of the Tongue' phenomena
	"Interference - Proactive: earlier into disrupts
bias	Retroactive: later info disrupts
150 B.	· Aging - Episodic memory is affected not semme semantic
, Disc	→ hippocampus may shrink → EXERCISE!
, Disguise (time a)	· Alzheimer's Disease - B-amyloid plaques spread over the cortex
2	The state of the s
gain	- Dementia - vascular dementia (not enough bloodflow)
3	· Ret
	· Amnesta
	- Retrograde : Events before incident - brain injury/stroke
	→ Anterograde: new memories - brain injury, sleeping pills, alcohol
	→ Bychogenic Ampesia - traumatic event (absence of brain injury)
	- Bychogenic Ampesia - traumatic eveni
es mem.)	
-	