	M T W T F S S Page No.:
	Date: YOUVA
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	Human Physiology
, k	Human Physiology MidTerm - 2
1)	Haptice - the sense of touch enables humans to
Table 1	perform a vide variety of exploration and
	manipulation of tasks in the real world.
	In virtual words & robot teleoperations scenarios,
TES V	this sense of touch must be artificially
	recreated by stimulating the human body
	(typically the hands) in a manner that
	produces the salient features of touch needed
	to enhance realism of human performance.
\	tally the in the state of the sally taken in the sally in the
2)	The sense of touch is typically desoribed as being divided as being into two modatilies: kneitheric
	durded as being into two modalities kinesthetic
	and tactile.
	kinesthactic sensations such as forces and torques
	ore sensed in the muscles, tendors and joints. Tactile sensations such as pressure, shear and
	ribrations are sensed by specialised sensory end
	organs known as mechanoreceptors that are
[	embedded in the skin
-	Each type of mechanoreceptor senses & responds
	to a specific type of haptic stimulus.
-	The mechanogeoptors are fast adapting mechanosecp-
S.	tors capture transeint signals & sow adapting
	mechanoreceptors capture mostly status stimuli-
-00	Machanoreceptors especially pacinian corpuscles muskel
- 1	celle meissners corpuscles, ruffini endings have
	Specialised functions

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6)	
	A astraunant teleoperating a robot outside the
	International space station to enable repair
	tasks while avoiding dangerous human space
	walk.
4	A surgeon using a robot to perform a
	delicate procedure at a scale not
	acheirable with the human hand.
-	In some cases, we seek to replace a sense of
	touch that was lost owing to disease or
	accident. An upper - limb amputee has completely
	lost the serie of touch, a prosthetic hard
	would sense haptie interactions between they
	and the environment & relay that information
	back to amputee.
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