## 22545

11920													
3	Ho	ours /	70	Marks	Seat	No.							
Instructions – (1)				All Questions	are Comp	oulsory.							
			(2)	Answer each	next main	Questio	on o	n a	n ne	ew	pag	e.	
			(3)	Illustrate your necessary.	answers v	with nea	ıt sk	cetc	hes	wł	nere	ver	
			(4)	Figures to the	e right indi	icate ful	1 m	ark	s.				
			(5)	Mobile Phone Communication Examination I	on devices	•							
											]	Mai	rks
1.		Attempt	any	<b><u>FIVE</u></b> of the	following	:							10
	a)	Enlist va	arious	s steps of gait	cycle.								
	b) Give any two			goals of rehabilitation engineering.									
, <b>-</b>			prosth	esis and orthosis.									
			label	led diagram of a prosthetic hand.									
	e)	Draw la	belled	l diagram of a	iny one mo	otion an	alys	is 1	tech	niq	ue.		
	f)	Give any	y two	o functions of	mobility a	ids.							
2.		Attempt	any	THREE of t	he followi	ng:							12
	a)	Describe	the	maintenance st	teps of the	specifi	ed 1	not	oilit	y a	id.		
	b)	Describe	with	sketch, proce	ess of the s	specified	l joi	int	ang	le			

- measurement.
- c) Draw labelled structure of crutche's and tripod's.
- d) Explain structure and function of a Jaipur foot.

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## 3. Attempt any THREE of the following: 12 List different approaches for delivery of rehabilitation care. a) b) Draw a labelled sketch of self alighting orthotic knee joint. c) Discuss the concept of sensory rehabilitation. Describe various wheelchairs standard's and test. d) 4. Attempt any THREE of the following: 12 Describe the concept of hierarchically controlled prosthetic hand. a) Distinguish between electric powered wheelchair and manual b) wheelchair. Describe knee joint prosthesis with neat sketches. c) Define anatomical lever system with each of example. d) Describe with sketches an intelligent prosthetic knee. e) 12 5. Attempt any TWO of the following: a) Compare sensory and motor rehabilitation (Any three points) b) Describe structure and applications of myoelectric prosthesis. Define gait cycle and describe various stages of gait cycle c) with neat sketches. 6. Attempt any TWO of the following: 12 a) Describe with sketch any two techniques for motion analysis. Describe the concept and application of functional electrical b) stimulation. Suggest designing criterion of walking aids for mentally c) impaired patient.

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