## MASTER OF PHYSIOTHERAPY THIRD SEMESTER **BIOENGINEERING & REHABILITATION PRINCIPLES**

SET A

MPT - 302

(Objective)

[USE OMR SHEET FOR OBJECTIVE PART]

Duration:	3 hrs.	

Full Marks: 70

Marks: 20

ime	2: 30 min.		Widtks.
C	hoose the correct answer from th	e following:	1×20=20
1.	In which prosthesis a window is cut at the a. Syme's prosthesis c. Multi Axis feet	te end of bulbous types b. Dynamic response d. Patellar tendon beari	ng socket
2.	When was RCI Act launched in India? a. 1982 c. 1892	b. 1992 d. 1990	
3.	The pelvic band in suspension mechanis a. Anterolateral stability c. Mediolateral stability	ms provides  b. Posterolateral stabilio  d. All	rt
4.	What is the formula used for calculating  a. a+b  c. a+b+c	disability b.	
5.	Which system uses the patient's own resprosthesis  a. Passive system  c. Externally powered system	b. Body powered system d. Hybrid system	
6.	Mallet finger orthosis is given when ther <ul><li>a. PIP</li><li>c. None</li></ul>	e is an injury to b. DIP d. Both	
7.	This type of knee joint in knee orthosis at a. Straight set knee joint c. Posterior offset knee joint	llows free flexion and extens b. Polycentric knee join d. All	
8.	National Trust Act was founded in a. 1997 c. 1999	<ul><li>b. 1998</li><li>d. 1899</li></ul>	
9.	This is the opening of shoe located at bas a. Vamp c. Toe box	se of toungue b. Throat d. Toungue	

10.	which alliong the following is a physical sci			
	a. Cerebral palsy		Dwarfism	
	c. Muscular dystrophy	d.	All of the above	
11	Silselian bandage is a part of			
***	a. Ankle foot orthosis		V	
			Knee ankle foot orthosis	
	c. Hip knee ankle foot orthosis	d.	Foot orthosis	
12.	In which year the Rights of person with Disabilities Bill was passed?			
	a. 2016		2012	
	c. 2005	d.	2010	
12	11.			
13.	It has a planter transverse convexity which			
	a. Rocker bar		Metatarsal bar	
	c. Insoles	d.	Outsoles	
14.	Splints can perform which action?			
	a. Support	h	Assist	
	c. Immobilize		All	
15.	Dial lock is adjusted everydegree of fl	exi	on	
	a. 4	b.		
	c. 6	d.	7	
16.	It is a manifestation of a problem at the tiss		or organ level	
	a. Disability			
	e. Handicapped		Impairment	
		d.	All	
17.	Which splint is used for Erb's palsy			
	a. Aeroplane splint	b.	Knuckle Binder splint	
	c. C splint		All	
10	Harris C. C. Line			
10.	How many types of disability are present?			
	a. 1	b.		
	c. 3	d.	4	
19.	Halo cervical orthosis havepins			
	a. 1	b.	2	
	c. 3	d.		
20.	It consists of a plastic, spring-controlled dev	ice	with fingers that are controlled by	
	the control cable of prosthesis			
	a. Terminal devices	b.	Wrist devices	
	c. Bowden cable	d.	Plastic laminae cable	

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## [ Descriptive ]

Ti	me: 2 hrs 30 min	Marks: 50
	[ Answer question no.1 & any four (4) from the rest ]	
1.	What is upper limb prosthesis? What are the parts of upper limb prosthesis? Explain in details with diagrams	5 10
2.	Explain epidemiology of disability with emphasis on locomotor disability	r 10
3.	What is prosthesis? Explain about endoskeleton and exoskeleton prostheiss in details?	10
4.	Define various legal aspects in disabilities?	10
5.	What is multi axis feet? Write about solid ankle cushion feel?	10
6.	Write down the principles and methods of rehabilitation of speech and hearing disability	10
7.	What is milwalkee brace. Write about the working and indications of brace. Add necessary diagrams.	10
8.	Describe architectural barrier and possible modifications with reference to CVA and spinal cord injury.	10
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