

## श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, त्रिवेंद्रम , केरल– 695 011 (एक राष्ट्रीय महत्व का संस्थान, विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार) SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY, TRIVANDRUM KERALA – 695 011

## Entrance Examination 2020 - ACP \_ in \_ Physiotherapy in Cardiovascular Sciences

	Entrance Examination 2020 - ACP _	III _ FIIYS	iotherapy in C	aruiovascuiai	Sciences	
SI No	Question	Answer	OptionA	OptionB	OptionC	OptionD
1	Which asisstive device allows for 2 point,3 point and 4 point gait	С				
	pattern ?		Straight cane	Walker	Axillary crutches	Quad cane
	A patient complains of pain inferior to the anteromedial surface					
2	of the knee, especially while climbing stairs. On examination,	Α				
	there is tenderness to palpation over the proximal anteromedial		Pes anserinus	Iliotibial band		
	tibia. What is the most likely diagnosis		bursitis Sparing of	syndrome	Patellar tendinitis	Prepatellar bursitis
3	Which of the following is true abourt anterior spinal artery	Α	posterior column	Sparing of anterior		Sparing of
	syndrome ?	, ,	tract	column tract	Like a hemicord	corticispinal tract
4	Miliah is make ment of muschiness seconds 2	Α	Discount for some dis-		West a late of the	Waster and the
	Which is not a part of quadriceps muscle ?		Biceps femoris	Rectus femoris	Vastus lateralis	Vastus medius
5	Which measurement is used to determine armrest height of a	D	Femur to radial			
	wheelchair ?		head distance	Seat to ASIS	Elbow to acromion	Seat to olecranon
6		D	Decreasing tone	Unchanged tone	Decreasing tone	Increasing tone
	When a patient with recent onset of hemiplegia shows		and increasing	and increasing	and increasing	and increasing
	progressive motor recovery from Brunnstrom Stage 1 to		isolated voluntary	isolated voluntary	synergistic	synergistic
	Brunnstrom Stage 3, what do you expect?		movements	movements	movements	movements
7	Which of the following is not innervated by anterior interosseous	Α	Flexor digitorum		flexor digitorum	pronator
	nerve ?		superficialis	flexor pollicis longus	profundus	quadratus
8		D	Anterior to S1	Posterior to S2	Posterior to S1	Anterior to S2
	Centre of gravity of adult human in anatomical position		vertebrae	vertebrae	vertebrae	vertebrae
9		Α		Bowel and bladder		
	Most frequent symptom of multiple sclerosis is ?		Walking difficulty	discomfort	Pain	Visual disturbance
10		В				Posterior
	Which ligament helps to maintain medial longitudnal arch?		Talo navicular	Calcaneonavicular	Anterior talofibular	talofibular
11	Effects of traction depend on?	D	Magnitude of tractive force	Duration of application	Position of patient	All of the above
	Massage in which there is series of brisk blows in alternating		tractive force	аррисации	Position of patient	All of the above
12	fashion?	С	Vibration	Kneading	Tapotement	Friction massage
13	One MET isml of oxygen/kg/min in males	В	2.5	3.5	4.5	1.5
14	Which fibers transmit poorly localized, dull, visceral pain to the	D			Unmyelinated	
	spinal cord?		Myelinated A-alpha	Myelinated A-delta	gamma	Unmyelinated C
15	Treatment of acute myositis ossificans is	D	Passive mobilization	Active mobilization	Infrared therapy	Immobilization
16	What is the most common pathology underlying rotator cuff	В		Subacromial	Acromioclavicular	Bicipital tendon
17	disorders in the nonathlete?	С	Deltoid atrophy	impingement A alpha fibers	arthritis	disorder C fibers
17 18	TENS reduce pain by action over Infrared has a strong effect on ?	В	A delta fibers Bone	Fat	A beta fibers Water	Both B and C
	ammarea has a strong enection :		Congenital			
19	Which of the muscle disease present with early contracture?	В	myopathy	Emery dreifuss MD	FSHD	DMD
20	Normal Stride length is about	Α	70 - 82 cms	35 -41 cms	41-47 cms	15 -20 cms
24	lafar and large conduction to the main sinter of		and all a	D. Harris	C	reverse
21	Infra red lamp works by the principle of	В	conduction	Radiation	Convection	piezoelectric effect
22	The covering of each muscle fassicle known as	Α	Perimysium	Endomysium	Epimysium	Endoneurium
23	In athletes, who train intensely for 2 to 6 hrs, should consume	С	0.5 - 0.8	0.8 -1.2	1.2 -1.8	1.8-2.4
	g of protein per kg of body mass daily					
24	In myo electric prosthesis the commonest hand grip is	Α	Three-jaw chuck	Lateral	Spherical	Power
25	In SCI ASIA grading, Hip flexor strength asessment corresponds to which level	В	L1	L2	L3	L4
26	Which is true for ultrasound therapy ?	В	3MHz penetrates >	1 MHz penetrates >	Both penetration is	
	watt to the second seco		1 MHz	3 MHz	same	None of the above
27	Which muscle fibers contain the greatest mitochondrial concentration of all tissues?	D	Striated shincter	Smooth mussles	Skoltal mussles	Cardiac muscles
	concentration of all ussues!	_	Surated Shincter	Smooth muscles	Skeltal muscles	carulac muscles
28	Absolute contraindication for exercise in pregnancy is ?	В	Anemia	Incompetent cervix	morbid obesity	Diabetis Mellitus
		-	teaching the	training the	shortening step	
29	Physical therapy treatment for patients with Parkinson disease	D	individual to turn	individual not to	length to prevent	using verbal and
	includes		en bloc	focus on foot position	freezing	visual cueing
	Thie iindex of relative cardiac work, called the double product or			position		
30	rate-pressure product is	С	MAP x CO	MAP x HR	SBP X HR	DBP X HR
			Decreased muscle	Increased plasma	Decreased bone	Decreased
31	All are seen in deconditioning except	В	strength	volume	mineral density	exercise tolerance
			Ŭ.		,	
32	Ferromagnetic lead zirconate titanate (PZT) ceramics are used in	D	Infrared	Short wave diathermy	Hydrocollator	Ultrasound
L	ir erromagnetic icad zirconate titaliate (FZT) terdillics die used III	1	rurcu	a.acricitity	yaroconatol	Sitrasouna

	IA					
33	A patient complains of knee pain after falling on her flexed knee. Physical examination shows a positive "sag sign." Which	D				
33	ligament is injured?	D	Medial collateral	Lateral collateral	Anterior cruciate	Posterior cruciate
34	Short term memory is mediated by	Α	Frontal	Parietal	temporal	Occipital
	The alternating vasodilatation and vasoconstriction during the				Lewis Hunting	
35	application of cold is	С	Joules effect	Turner effect	reaction	Hunters effect
36		В	Hip extensors and	Hip flexors and	Hip adductors and	
	Anterior Pelvic tilt is produced by		abdominala	lumbar extensors	trunk side flexors	none of the above
37	Transcutaneous delivery of drugs using ultrasound is known as	С	Iontophoresis	Plasmapheresis	Phonopheresis	Apheresis
	A 76-year-old woman is referred for rehabilitation following a					
38	recent left total hip arthroplasty. To prevent hip dislocation, you	Α	Adduction beyond	Abduction greater	Flexion greater than	External rotation
	instruct the patient to avoid hip		neutral	than 20 degrees	45 degrees	beyond neutral
	The staging of pressure ulcer corresponding to full-thickness			_	_	•
39	tissue loss and subcutaneous fat may be visible but bone,	С				
	tendon, and muscle are not exposed.		Stage 1	Stage 2	Stage 3	Stage 4
40	The Short wave diathermy for therapeutic use is	Α	27.12MHz	44.6 MHz	21.2MHz	23.12MHz
41	All are seen in eversising muscle event	Α	Increased tissue	Increased blood	Increased tissue H+	Increased oxygen
41	All are seen in exercising muscle except	А	PO2	flow	increased tissue H+	extraction
	During an exercise tolerance test, what percent of the maximum					
42	heart rate is the usual target?	С	60	75	85	100
43	The most powerful muscle of the body	D	Quadriceps	Gluteus maximus	Deltoid	Gastrosoleus
44	For bilateral transfemoral amputation which of the prosthetic	D	Carribbia	Fadado U.S. S.	Ischial containment	Manual locked
<u> </u>	component is not recommended ?		Stubbies	Endoskeltal shank	socket	knees
45	In AFO ankle set in 5° plantarflexion decreases	D				
43	the moment and stabilizes the knee during midstance.		Extensor	Internal rotation	External rotation	Flexor
	The highest oxygen uptake during upper-body exercise averages					
46	between % of V O2max.	D	50 - 60	80 -90	60 -70	70-80
47		А				
	Dorsal root ganglion is a part of		Afferent pathway	Efferent pathway	Autonomic pathway	Optic pathway
48	Nutrients needed for waying healing are	D	Vitamia D12	Talia asid	7:	All the above
	Nutrients needed for wound healing are Which provocative test evaluates both the hip and sacroiliac		Vitamin B12	Folic acid	Zinc	All the above
49	joints?	Α	FABER	SLR	Crossed SLR	Obers test
==	jonio		THE EN		Crossed Serv	000101001
50	Treatment of CTEV should start at	D	2nweeks	1 month	9 months	soon after birth
51	The energy system that predominates after the second minute	С				
	of exercise		Anaerobic	Creatine Kinase	Aerobic	Stored ATP
52	Modified Rankin scale in stroke is used for	В	To predict	To acocc dicability	To asess muscle	To plan intensive care
	Which of the following patients would be most in need of a		prognosis	To asess disability	strength	C5 Spinal cord
53	wheelchair with hand rim projections ?	D	Hemiplegic	Cauda equina	C3 Spinal cord injury	injury
	In a sarcomere, the H zone, a region of lower optical density		. 0		Both actin and	an entire
54	includes	Α	Only Myosin	Only actin	myosin	sarcomere
55	Lateral curvature of the spine is	С	Kyphosis	Scoliosis	Lordosis	Ankylosis
	Therapeutic intervention that focuses on moving the less	_				
56	impaired limb while watching its mirror reflection is known as?	С	Mantal impana.	Constrain induced	N diaman diaman an	Make all applies
	The proper length for a cane should be measured with the elbow		Mental imagery	therapy	Mirror therapy	Vrtual reality
57	in which position?	В	Extension	45 degree flexion	20 degree flexion	90 degree flexion
	III William posicioni		Upper limb	15 degree nexion	zo degree nexion	30 degree nemon
FO	Training in parallel har with long micrors will NOT help in 2	Α.	functions including	Concorn intocti-	Posturo correction	Gait training
58	Training in parallel bar with long mirrors will NOT help in?	Α	control of	Sensory integration	Posture correction	Gail Hailling
			incoordination	T'	T	Tanana barana da
59	Ischial containment prosthesis is used in	В	Transtibial amputation	Transfemoral	Trans radial	Trans humeral
	'		Increase the	amputation Protection of knee	amputation Convergence of	amputation Increase the stride
60	DAVISTAL AND A FAIL OF A ILLUSTRANCE OF A PART	D		ottotion of kiled	muscle force	length
	Which one of the following is not a function of patella?	D	leverage	joint	muscle force	
61			leverage Sarcoplasmic	joint	muscle force	
61	Which organalle is the site of ATP production	В	Sarcoplasmic reticulumn	Mitochondria	Nucleus	Golgi apparatus
61 62			Sarcoplasmic reticulumn 120	-		Golgi apparatus 100
	Which organalle is the site of ATP production  Normal range of shoulder abduction is degree	В	Sarcoplasmic reticulumn 120 Cerebellar	Mitochondria 90	Nucleus 180	Golgi apparatus 100 Muscular
62	Which organalle is the site of ATP production  Normal range of shoulder abduction is degree  Frenkel's exercise are done to improve function in	B C	Sarcoplasmic reticulumn 120	Mitochondria	Nucleus	Golgi apparatus 100
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62 63 64	Which organalle is the site of ATP production  Normal range of shoulder abduction is degree  Frenkel's exercise are done to improve function in  Which therapeutic modality combines a biologically active substance with a coupling medium and uses ultrasound to force the active material into tissue?  Gait pattern most appropriate for unilateral lower extremity	B C A	Sarcoplasmic reticulumn 120 Cerebellar	Mitochondria 90 Spinal cord injury	Nucleus 180 Amputation	Golgi apparatus 100 Muscular dystrophy
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				1	1	1
73	Following a burn injury, transparent custom total contact face	В	cover the	preserve facial	increase eyelid	
, ,	mask orthoses are used to		disfigurement	contours	eversion	prevent infection
74	The action of Parathyroid hormaone	D	Mobilizes Calcium from Bones	Increses intestinal absorption of calcium	Increases calcium reabsorption	All of the above
75	The disease with predominant Lower motor neuron ( LMN) signs	А	GBS	Multpile sclerosis	Stroke	Parkinsons
76	Which type of muscle contraction produce greater force ?	D	Isotonic	Isometric	Concentric	Eccentric
77	Which level is the most common site of spinal cord injury (SCI) in an elderly patient?	Α	Cervical	Thoracic	Lumbar	Sacral
78	In CTEV foot is in	С	Plantar flexion and eversion	Dorsiflexion and eversion	Plantar flexion and inversion	Dorsiflexion and inversion
79	Temperature regulation centre of the body	Α	Hypothalamus	Pitutatry	Pons	Medulla
80	The outcome scales used in traumatic brain injury is /are	D	GCS	CRS	DOCS	All the above
81	The flexors of the elbow are all except	Α	Triceps	Biceps	Brachialis	Brachioradialis
82		С	Musculocutaneous	l .	Thoraco dorsal	Suprascapular
02	Which nerve supplies lattismus dorsi ?		nerve	Long thoracic nerve	nerve	nerve
83	Which muscles act as extensors of vertebral column	D	Semi spinalis	Interspinalis	Multifidus	All the above
84	Warm sitz bath is useful in the treatment of	D	Post partum pain	Anorectal fistula	hemerrhoids	All the above
85	The neurodevelopmental training technique in stroke management	В	Facilitates tone on the spastic hemiplegic side	Attempts to inhibit tone in the spastic hemiplegic extremity	Uses a cuff shoulder sling	Requires restricting voluntary movement of the unaffected extremity
86	Rhythmic intiation, alternating isometrics, reversal of antagonists are methods used in	С	Brunstorm tecgnique	Bobath NDT	PNF	Alexander's technique
87	Hydrocollator packs are stored in water bath reservoirs at	Α				·
00	temperaturein °C. ( degree celsius) Which nerve supplies gracilis muscle ?		70 -80 Femoral	40 -50 Tibial	50 -60	90-100
88	which herve supplies gracilis muscle !	D	remoral	TIDIdi	Sciatic	Obturator
89	Conduction Aphasia is severe impairment of ?	D	Naming	Fluency	Comprehension	Repetition
90	Opponens pollicis is supplied by which nerve?	С	Radial	Ulnar	Median	Axillary
91	Rhomboides major muscle is a primary scapular	Α	Retractor	Protractor	Elevator	Depressor
92	Crossed Haminlagia is soon in lossion	А	At the level of Done	Above Bons	Roley Pens	None of the above
93	Crossed Hemiplegia is seen in lession Triple deformity of knee is seen in	В	At the level of Pons Polio	Above Pons TB	Below Pons RA	None of the above Synovitis
94	In a person with a transfemoral amputation, an abnormal prosthetic gait with lateral trunk bending toward the involved side in midstance most commonly occurs with hip	В		Abductor weakness	Flexion contracture	extension contracture
95	Hypertonic state with superimposed ratchet-like jerkiness , commonly seen in upper extremity movements in patients with Parkinson's disease is	А	Cogwheel rigidity	Lead Pipe rigidity	Spasticity	None of the above
96	Lee Silverman Voice treatment is used commonly in	С	Stroke	Alaheimers	Parkinson	TBI
97	The mechanism of neuroplasticity include	D	Collateral sprouting	Long term potentiation	Reactive synaptogenesis	All of the above
98	Which of the following is a deep sensation?	В	Pressure	Vibration	Touch	Temperature
99	A 29-year-old dancer presents with pain that originates on the sole of her foot. She is tender to palpation along the anterior calcaneus and medial arch. What is the most likely diagnosis?	D	Calcaneal bursitis	Tibiotalar impingement	Lisfranc joint subluxation	Plantar Fascitis
100	Which is not an intrinsic muscle of the hand?	С	Opponens pollicis	Abductor digiti minimi	Flexor carpi ulnaris	Interossei