

RE-9006

Seat No. _____

Second Year B. Physiotherapy Examination February - 2019 Exercise - II

Time: 3 Hours]

[Total Marks: 100 SECTION - I 1 Long Essay: (Any Two) $2 \times 10 = 20$ (1) Write in detail about structure and functional classification of joint. Define Progressive Resistive exercise. Differentiate (2) between isotonic isometic and isokinetic exercise. Explain Manual muscle testing and fundamentalprinciple of muscle testing. Write about shoulder flexors testing technique. 2 Short Essay: (Any Two) $2 \times 5 = 10$ (1) Mechanism of Respiration. (2) Power grip (3) Passive movement Very Short Essay: (Any Five) $2 \times 5 = 10$ 3 (1) Posture (2) Quadriceps lag (3) Axis and Plane Concave convex rule (4)Relaxation technique **(5)** (6) Buoyancy 4 Multiple Choice Questions: (MCQs) $10 \times 1 = 10$ ____ order lever is the lever of speed. (B) 2nd (A) 1st

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(C)

 3^{rd}

(D) None of the above

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(2)		ormal standing line of gra e joint.	avity	passes the		
		Through	(B)	In front of		
	` '	Behind	` ,	Lateral		
(3)	` /	ed passive movement	` ′			
(0)		joint mobilitation.				
	(A)	Shoulder	(B)	Elbow		
	(C)	Hip	(D)	All of the above		
(4)	Whi	Which is the important factor to gain bone density?				
	(A)	Weight bearing resistan	ice t	raining		
	(B)	Resistance training				
	(C)	Weight bearing aerobic	exei	ccise		
	(D)	None of above				
(5)	Stiff	knee gait is characteriz	zed l	by		
	(A)	Lurching	(B)	Hand to knee gait		
	(C)	Steppage gait	(D)	Hip hiking		
(6)	In v	which range muscle is m	ost	efficient?		
	(A)	Outer	(B)	Inner		
	(C)	Outer part of middle	(D)	Inner part of middle		
(7)	Stre	tching is the				
	(A)	Relaxed passive movem	ent			
	(B)	Sudden Passive movement	ent			
	(C)	Slow and sustained for	ced 1	passive movement		
	(D)	None of above				
(8)	End	feel of is bor	ıy.			
	(A)	Elbow extension	(B)	Knee extension		
	(C)	Hip extension	(D)	Shoulder extension		
(9)	Gler	Glenohumeral anterior glide can improve				
	(A)	Extension range				
	(B)	Abduction range				
	(C)	Flexion range				
	(D)	Extension and external	rota	ation		
(10)	During elbow flexion in sitting, Triceps					
	(A)	Work concentrically	(B)	Works eccentrically		
	(C)	Work static	(D)	Does not work		
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SECTION - II

(1) Discuss in detail indication and contraindication of

2×10=20

Long Essay : (Any Two)

5

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DTA 4	0000	(D) None of the above	[Cont.1			
		(C) Manual pressure				
		(B) Straps				
		(A) Co-contraction of muscle				
	(2)	Active fixation can be achieved by				
		(D) All of above				
		(C) Alter direction of motion				
		(B) Gain mechanical efficiency				
		(A) Make work easy				
(1)		Pulleys are used to				
8	Mul	tiple Choice Question : (MCQs)	10×1=10			
	(6)	Scapulo humeral Rhythm.				
	(5)	Co-contraction				
	(4)	Endurance.				
	(3)	Pain gate				
	(2)	Anatomical pulley				
	(1)	Fatigue				
7	Very	y Short Essay : (Any Five)	5×2=10			
	(3)	Stages of coughing.				
	(2)	Therapeutic uses of aerobic exercise.				
	(1)	Describe gait.				
6	Sho	rt Essay : (Any Two)	2×5=10			
	(3)	What is stretching? Explain its principles. How will you stretch the hamstring?				
	(2)	Discuss Mat exercise functional re-education for stroke patient.				
		postural drainage. Enlist various positions of the same.				

(3)	Low resistance high repetition exercise is used to improve muscle						
	(A) Strength (B) Volume						
	(C) Endurance (D) Co-ordination						
(4)	Movement in pendular suspension takes place in plane						
	(A) Inclined plane (B) Horizontal plane						
	(C) Sagittal (D) Frontal						
(5)	Progression of Frenkel's exercise is made by alteration of						
	(A) Speed-Quick to slow						
	(B) Range-wider to smaller						
	(C) Complexity of exercise						
	(D) All of the above						
(6)	Groove in PNF refers to						
	(A) Maximum resistance						
	(B) Repetition						
	(C) Diagnonal pattern						
	(D) Proprioceptive stimuli						
(7)	In Thomas test position limitation of hip adduction range indication shortiening of						
	(A) Tensor facia lata (B) Ilip tibial band						
	(C) Iliopsoas (D) Rectus femoris						
(8)	The upword movement inside the water is easy. The movement is assisted by						
	(A) Gravity (B) Hydrostatic pressure						
	(C) Water current (D) Buouyancy						
(9)	The dangers of hyderotherapy is						
	(A) Slippage and fall (B) Drowning						
	(C) Infection (D) All of the above						
(10)	Which is the most important variable to improve muscle force generation capacity?						
	(A) Duration (B) Load						
	(C) Frequency (D) Sets						