

PR-9006

Seat No.

Second Year B. P. T. Examination

July - 2018

Exercise Therapy - II

Time: 3 Hours] [Total Marks: 100

Instructions:

- (1) Write legibly.
- (2) Draw diagrams where necessary.
- (3) Figure to the right indicate marks.

SECTION - I

1 Answer any two from the following:

- 20
- (a) What is MMT? Write down principles of MMT. How will you check the strength of Hamstring muscle?
- (b) What is PNF? Explain basic principles of PNF. Write in detail about D2 flexion technique.
- (c) Define mobilization. Write down the different grades, indications and contraindications of mobilization. How will you improve shoulder abduction with mobilization?
- 2 Answer any two from the following:

10

- (a) Frenkel's exercises
- (b) Postural Drainage for upper lobes
- (c) Relaxation.
- 3 Answer any five from the following:

10

- (a) Hydrotherapy
- (b) Plyometrics
- (c) Rhythmic stabilization
- (d) Autogenic inhibition technique
- (e) DAPRE
- (f) Uses of Aerobic Exercises.

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4	Multiple Choice Questions:								
	(1)	PNF stretching is							
		(a)	Active stretching	(b)	Passive stretching				
		(c)	Self stretching	(d)	All of above				
	(2)	To improve Wrist flexion glide is used.							
		(a)	Volar	(b)	Ulnar				
		(c)	Dorsal	(d)	Radial				
	(3)	Resistance training can be given by							
		(a)	Dumbells	(b)	De Lorme Shoe				
		(c)	Thera tubes	(d)	All of above				
	(4)	Adaptive shortening of soft tissues is known as							
		(a)	Hypermobility	(b)	Hypomobility				
		(c)	Both	(d)	None				
	(5)	DON	DOMS occurs due to which type of muscle contraction?						
		(a)	Concentric	(b)	Eccentric				
		(c)	Isometric	(d)	Isokinetic				
	(6)	Low repetition with high resistance will improve							
		(a)	Endurance	(b)	Co-ordination				
		(c)	Strength	(d)	None				
	(7)	A patient is able to planterflex the foot only in supine position.							
		Which MMT grade is applicable to the patient?							
		(a)	2	(b)	3				
		(c)	4	(d)	5				
	(8)	Which is not related to plyometrics?							
		(a)	Facilitative cycle	(b)	Stretch cycle				
		(c)	Shortening cycle	(d)	Amortization phase				
	(9)	Which is true for the response to exercise?							
		(a)	Increase in cardiac output	(b)	Increase in heart rate				
		(c)	Increase in respiratory rate	(d)	Allofabove				
	(10)	Hydrotherapy is contraindicated in							
		(a)	Severe peripheral vascula	r disea	ase				
		(b)	Unstable angina						
		(c)	Both						
		(d)	None						

SECTION - II

5	Ans	Answer any two from the following:							
	(a)	Define Posture. Write down in detail about the deviations of posture affecting spine.							
	(b)	Write down the biomechanics of Shoulder joint.							
	(c)	Bion	nechanics of respi	iration.					
6	Ans	Answer any two from the following:							
	(a)	Locking and unlocking of knee							
	(b)	Scapulohumeral rhythm							
	(c)	Classification of joints.							
7	Ans	Answer any five from the following:							
	(a)	Acti	ve and passive ins	sufficiency					
	(b)	Two Examples of second order lever							
	(c)	Types of Power grip							
	(d)	Pelvic tilting							
	(e)	Q angle							
	(f)	Name the phases of Gait cycle.							
8	Mul	Multiple Choice Questions: 10							
	(1)	Example of Close chain exercise is							
		(a)	Push ups	(b)		Squatting			
		(c)	Lunges	(d)		All of above			
	(2)								
		original shape and size is known as							
		(a)	Elastic limit	(b)		Toe region			
		(c)	Failure	(d)		None of above			
	(3) New point on one surface meet new point on the opposing surface is								
		(c)	Rolling	(d)		None of above			

(4)	Body systems adapt over time to the stresses placed on them					
	(a)	Wolff's Law	(b)	Pascal Law		
	(c)	Growthus Law	(d)	None of above		
(5)	1 st Carpometacarple joint is an example of					
	(a)	Hinge	(b)	Pivot		
	(c)	Ball and socket	(d)	Saddle		
(6)	Lateral lean and pelvic drop is seen in which type of gait ?					
	(a)	Tredelenburg gait	(b)	Antalgic gait		
	(c)	Normal gait	(d)	None of above		
(7)	Excessive pronation of subtalar joint leads to					
	(a)	Pes cavus	(b)	Pes planus		
	(c)	Sesamoiditis	(d)	None of above		
(8)	Pushing a wall is an example of muscle contraction					
	(a)	Isokinetic	(b)	Concentric		
	(c)	Isometric	(d)	Eccentric		
(9)	Find the odd one out.					
	(a)	Shoulder joint	(b)	Knee joint		
	(c)	Elbow joint	(d)	Ankle joint		
(10)	Muscles of Guy ropes are all except					
	(a)	Sartorius	(b)	Biceps femoris		
	(c)	Semitendinosus	(d)	Gracilis		