

MR-7796-N

Seat No.

First Year B. Physiotherapy Examination July - 2016

Exercise Therapy - I

Time: 3 Hours] [Total Marks: 100

	SECTION - I
1	Long notes: (any two) 2×10
	(A) What are the assistive devices of gait. Explain in detail the types of crutches measurement and gait pattern with crutches. Add a note on pre crutch training.
	(B) What is resisted exercise? Explain in detail the various means of application of resistance with example for strengthening quadriceps muscle.
	(C) What is posture? What are its types? Explain in detail postural reflex.
2	Short notes: (any two) 2×5
	(A) Principles, uses and effects of passive movement.
	(B) End feel
	(C) Suspension for elbow flexion.
3	Short Answers : (any five) 5×2
	(A) Effect of exercise on cardiovascular system
	(B) Types of muscle work.
	(C) Trick movement
	(D) Axial and modified axial suspension.
	(E) Friction massage
	(F) Second order lever.
4	M.C.Q. : 10×1
	(1) is the prime muscle of expiration.
	(A) Diaphragm
	(B) External intercostals
	(C) Scalani
	(D) None of the above

(Z)		is not a component of postural reflex.
	(A)	Joint proprioceptor
	(B)	Brain
	(C)	Skeletal muscle
	(D)	None of the above
(3)		is not an effect of massage.
	(A)	Improve circulation
	(B)	Induce relaxation
	(C)	Scar mobilization
	(D)	Strengthen muscles
(4)		mal ROM of hip flexion with knee flexion is
	degr	
	(A)	120
	(B)	150
	(C)	90
	(D)	180
(5)	End	urance is the ability of the muscle to
	(A)	Produce full ROM
	(B)	Produce maximum force
	(C)	Generate maximum power
	(D)	To work for a long period of time.
(6)		is a contraindication of massage.
	(A)	Local infection
	(B)	Local edema
	(C)	Adhered scar
	(D)	Muscle spasm
(7)		ngth of a muscle can be measured by
	(A)	Goniometer
	(B)	inch tape
	(C)	Knee hammer
	` ′	None of the above
(8)		stance to muscle work can be applied by
	(A)	Altering lever arm
	(B)	
	(C)	
	(D)	
(9)		massage is used to mobilize lung secretions.
	, ,	Efflurage
		Clapping
		Haking
	(D)	All of the above

(10) Gutter crutch is used as an assistive devices of gait for (A) Non weight bearing gait (B) Partial weight bearing gait Patients with rheumatoid arthritis (D) For shadow walking. SECTION - II Long notes: (any two) $2 \times 10 = 20$ Explain different types of breathing exercise .its indications and contraindications. (B) Massage, its classification, indications and contraindications. Write about therapist and patient preparation for massage. What is JROM? What are the uses of measuring JROM? Explain the methods of measurement of shoulder ROM using universal goniometer. Short notes: (any two) $2 \times 5 = 10$ Advantages and disadvantages of group exercise Fundamental starting position - list down the derived position from each. Massage for upper limb. (C) Short Answers: (any five) $5 \times 2 = 10$ (A) Axis and Planes (B) Clapping and haking (C) Pelvic tilt (D) Massage for edema reduction Apparatus used in physiotherapy (E)(F) Phases of normal gait.

4 M.C.Q.: $10 \times 1 = 10$

- Lateral flexion of trunk takes place in
 - (A) Frontal plane
 - Sagital plane (B)
 - (C) Horizontal plane
 - (D) None of the above
- (2)order lever is lever of velocity.
 - 1st(A)

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3

- 2^{nd} (B)
- 3^{rd} (C)
- (D) None of the above

(3)	Suspension cage was designed by
	(A) Margaret Holles
	(B) Synthya Norkin
	(C) Guthre Smith
	(D) Dena Gardiner
(4)	Shadow walking is a type of
	(A) Normal gait
	(B) NWB gait
	(C) FWB gait
	(D) PWB GAIT
(5)	Anterior pelvic tilt is produced by
	(A) Hip extensors and abdominals
	(B) Hip flexors and lumbar extensor
	(C) Hip abductors and trunk side flexors
	(D) All of the above
(6)	In a patient with priotruted abdomen muscles/
	weak.
	(A) Abdominals and gluteus maximus
	(B) Ilopsos and back extensors
	(C) Gluteus medius and piriformis
	(D) None of the above
(7)	is not an effect of passive movement.
	(A) Maintain ROM
	(B) Induce relaxation
	(C) Strengthen muscles
	(D) None of the above
(8)	Empty end feel is due to
	(A) Approximation of bone
	(B) Approximation of soft tissue
	(C) Tension of soft tissue
	(D) Pain
(9)	In Adduction of shoulder from 90 degrees abduction in standing
	position is
	(A) Adductors work concentrically
	(B) Adductors work eccentrically
	(C) Abductors work concentrically
(10)	(D) Abductors work eccentrically
(10)	During free exercise, muscles work
	(A) Against maximum resistance
	(B) Against moderate resistance
	(C) Against or towards gravity(D) All of the above
	(D) All of the above