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34 (2) EXTH 2.3

2016

EXERCISE THERAPY

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

- I. Essay type questions : (any two out of three) $2\times10=20$
 - 1. Define contracture and its types. What are the various methods to increase soft tissue mobility? Explain any two in detail.
 - 2. Define relaxation. Explain the principles, uses and technique of any two relaxation methods.
 - 3. Classify massage. Mention the physiological and therapeutical uses of each technique.

Contd.

II. Short Essay Type: (any ten out of twelver) 5×10=50

- 1. Anthropometric measurements
- 2. PRE regimens
- 3. Explain the postural strategies.
- 4. Write about the principles, and benefits of Axial suspension therapy.
- 5. List out the Fundamental Starting positions with their benefits.
- 6. Isometric regimens.
- 7. Principles of axillary crutches.
- 8. Advantages and disadvantages of Mechanical Resistance Exercises.
- 9. Explain the various tests for coordination.
- 10. Principles of Goniometry.
- Detail out the principles of Asanas. Mention any three asanas with their benefits.
- Procedure for grading the Rhomboid muscle.

III. Short Answer Type : (any five out of seven) $2 \times 5 = 10$

- 1. What is Accommodating resistance exercise?
- 2. Gutter Crutches.
- 3. Stretching of iliopsoas.
- 4. Break Test.
- 5. Cardiovascular response to exercise.
- 6. Differences between group and mass exercises.
- 7. Motor unit.

III. Multiple Choice Question: 1×20=20

- 1. 'The area in the muscle fibre where when polarized light is passed, the light rays are refracted to different directions' is known as
 - (a) I band
 - (b) A band
 - (c) H-zone
 - (d) Z-disc

3 Property Samples

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Contd.

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2.	All is true about the determinants of exercise program except —	
	(a)	Intensity should be 70% of max HR
	(b)	Duration of exercise should be 20- 30 min at 60-70% MHR
	(c)	Work: Recovery = $1:1$ or $1:5$
	(d)	Frequency should be 3-4 times/day and not depending on age.
3. Maitland has given grades.		
	(a)	5
	(b)	4
*	(c)	3
	(d)	2
4.	Hai of	nd to knee gait is due to weakness
	(a)	Iliopsoas
	(b)	Hamstring
	(c)	Quadricep
	(d)	Tibialis Anterior
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- 5. The principle of Frenkel's coordination exercise is/are
 - (a) Precision
 - (b) Attention
 - (c) Repetition
 - (d) All of the above
- 6. A pillow is placed under the abdomen in prone lying position for the massage of the back to
 - (a) Flatten the back
 - (b) Raise the pelvic to facilitate drainage
 - (c) Relieve pressure over the breasts in case of female
 - (d) All of the above
- 7. Running is characterised by
 - (a) Cadence more than 130/min
 - (b) Absence of double support phase
 - (c) Increase in floating period
 - (d) All of the above

- In DAPRE the base repetition maximum is
 - (a) 10 RM
 - (b) 6 RM
 - (c) 1 RM
 - (d) 3 RM
- 9. Resisted Exercise helps to
 - (a) Increase Power
 - (b) Increase Endurance
 - (c) Increase Volume
 - (d) All of the above
- 10. Universal Goniometer was developed by —

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- (a) Fox
- (b) Moore
- (c) Schenkar
- (d) Karpovich

- 11. Which of the following is not true
 - (a) 4-point gait is slow and stable gait
 - (b) Weight is borne on both L/L
 - (c) Progression from swing to swing through is present
 - (d) 4-point gait is a type of non weight bearing gait
- 12. Duration of mechanical stretching is for at least
 - (a) 60 sec
 - (b) 2 min
 - (c) 15-30 min
 - (d) none of the above
- 13. RM indicates -
 - (a) Max weight that can be lifted only once through a prescribed range
 - (b) Greatest amount of weight a muscle can move through available ROM, a specific nos. of time
 - (c) Max weight that can be lifted 10 times at natural speed without rest between the lifts
 - (d) None of the above

Contd.

- 14. Movement in pendular suspension takes place in
 - (a) Horizontal plane
 - (b) Inclined plane
 - (c) Sagittale plane
 - (d) Frontal plane
- 15. Centre of buoyancy in normal standing posture inside water lies in
 - (a) S_2
 - (b) Sternum
 - (c) Axilla
 - (d) T_2
- 16. Thomas' Test is done to test
 - (a) Hip extensor tightness
 - (b) Hip flexor tightness
 - (c) Hip abductor tightness
 - (d) Hip rotator tightness
- 17. 'Cooling Down' following exercise helps
 - (a) Cooling Down fainting by increasing blood return to heart and brain
 - (b) Cooling Up pooling of blood to L/L
 - (c) Cooling Down recovery
 - (d). Causes myocardial ischemia

- 18. Nodding of the head is an example of
 - (a) 1st order lever
 - (b) 2nd order lever
 - (c) 3rd order lever
 - (d) 4th order lever
- 19. Stretching should not be done more than—
 - (a) 2-5 times/week
 - (b) 1-2 times/session
 - (c) 60 sec/stretch
 - (d) All of the above
- 20. Frenkel's Exercise progression can made by increasing
 - (a) Speed
 - (b) Range
 - (c) Complexity
 - (d) All of the above.

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