Total number of printed pages-8

34(2) EXTH 2.3

2020

EXERCISE THERAPY

Full Marks: 100

Time: Three hours

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

- 1. Multiple Choice Questions: 1×20=20
 - (A) Upward movement in water is due to:
 - (a) Gravity
 - (b) Buoyancy v
 - (c) Hydrostatic pressure
 - (d) None.
 - (B) Normal ROM of shoulder extension is:
 - (a) 0-20°
 - (b) 0-40°
 - (c) 0-30°
 - (d) 0-60°...

Contd.

- (C) In which Grade does a patient completes a minimum of 25 heels rises through full ROM without a rest in plantar flexion of ankle:
 - (a) Grade 3
 - (b) Grade 2
 - (c) Grade 1
 - (d) Grade 5. /
- (D) Which of these is the derived position from kneeling?
 - (a) Standing
 - (b) Stoop sitting
 - (c) Lunge sideways
 - (d) Kneel sitting.
- (E) Which of these muscles helps in the rotation movement of the scapula?
 - (a) Levator Scapulae and Serratus Anterior
 - (b) Pectoralis major
 - (c) Scalene
 - (d) Deltoid (posterior fibres).

- (F) Which of these exercise helps in strength training?
 - (a) Assisted Exercise
 - (b) Active Exercise
 - (c) Free Exercise
 - (d) Resistance Exercise.
- (G) Joint Mobilization is contraindicated for:
 - (a) Hyper mobility
 - (b) Joint stiffness
 - (c) Painful joints
 - (d) None.
- (H) Types of Isometric Exercise
 - (a) Static Exercise
 - (b) Multiple-setting Exercise
 - (c) Close-chain Exercise
 - (d) Isokinetic Exercise.
- (I) D1 extension is:
 - (a) Extension adduction
 - (b) Extension abduction
 - (c) Flexion adduction
 - (d) Flexion abduction.

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Contd.

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- (J) The pelvic tilt is said to be normal in standing position when angle measures
 - (a) 60-70
 - (b) 30-40
 - (c) 50-60
 - (d) 50-70.
- (K) To achieve an effective stretch for the costal fibres of pectonalis major, shoulder must be abducted
 - (a) below 90°
 - (b) above 90°
 - (c) 90°
 - (d) All of the above.
- (L) Gravity:
 - (a) It is the force by which all bodies are attracted to the earth.
 - (b) It is the force of the body on an object.
 - (c) It is vertical line through COG.
 - (d) None.

- (M) Individual muscle fibre may not be isolated and tested separately
 - (a) true
 - (b) false
 - (c) only few
 - (d) None.
- (N) Thrust:
 - (a) high velocity
 - (b) low velocity
 - (c) high velocity, short amplitude motion
 - (d) low velocity, high amplitude motion.
- (O) Types of Goniometer:
 - (a) Metal Goniometer
 - (b) Universal Goniometer
 - (c) Plastic Goniometer
 - (d) Semi-circle Goniometer.
- (P) Which of these ropes helps in 3-dimension movements of the limb?
 - (a) triple rope
 - (b) double rope
 - (c) single rope
 - (d) pulley rope.

(Q)	PFT	helps	
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- (a) to test diffusion capacity in lungs
- (b) to test lung volume and capacity
- (c) to test airways integrity
- (d) None.
- (R) Normal muscle power is integrated by
 - (a) Grade 1
 - (b) Grade 3
 - (c) Grade 0
 - (d) Grade 4.
- (S) Drainage of fluid can be done by
 - (a) Pounding
 - (b) Effleurage
 - (c) Hacking
 - (d) Stroking.
- (T) Which of the following is a nonequilibrium test?
 - (a) Heel to shin
 - (b) One-leg stand
 - (c) Tandem standing
 - (d) Double support.

2. Short essay type:

5×10=50

- (a) Principles of Resistance Exercise.
- (b) Types of Stretching Exercise.
- (c) Effects and uses of active Exercise.
- (d) Define posture. Write about postural mechanism.
- (e) Detailed out the true limb length measurement procedure.
- (f) Explain 3 and 4 point Gait training.
- (g) Explain the different general relation technique with diagrams.
- (h) Define Suspension therapy. Write its principle.
- (i) What is the indication and contraindication of hydrotherapy?
- (j) Discuss the goniometry procedure for shoulder abduction and elbow flexion.

3. Short answers:

2×5=10

- (a) Explain PRE and DeLorme regimes.
- (b) Discuss two asanas.

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Contd.

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- (c) Explain two properties of water.
- (d) Effects of group exercise.
- (e) What are the causes of impaired balance?
- 4. Essay type: (Answer **any two** out of **three**) 10×2=20
 - (a) Define Hydrotherapy. Explain the different properties of water. Write down the precautions and indication of it.
 - (b) Define Resistance Exercise. Write down its guiding principles. Explain the types of Resistance Exercise.
 - (c) Define Aerobic Exercise. Explain the determinants of Aerobic Exercise. Enlist physiological changes that occur with training.