

MT-9006

Seat No.

Second Year B. Physiotherapy Examination January - 2018

Exercise Therapy - 2 & Kinesiology

Time: 3 Hours] [Total Marks: 100 SECTION - I Long Essay : (Any **Two**) 20 1 Describe the determinants of stretching intervention. Describe various adjuncts of stretching. 2 Define Posture. Classify various postural deviation of spine with its relevant treatment. 3 What are the indications contraindications of postural drainage? What are the assistive devices for the same? Add the note on postural drainage of left lower lobe. 2 10 Short Notes: (Any Two) Stress testing 1. 2. Frenkle's Exercise 3. Stages of coughing 3 Write any five: 10 Principles of stability 1. Uses of hydrotherapy 2. Types of muscle work 3. Concave convex rule 4. 5. Relaxation techniques Inhibitory techniques 6. 10 4 MCQs:In PNF knee flexion is the component of Flexion - Abduction - External Rotations b. Flexion – Adduction – External Rotation Extension - Adduction - Internal Rotations c. Extension - Abduction - External Rotation 2. Leg lowering from extended knee position, quadriceps works Concentrically a. **Eccentrically** b. Statically c. Isokinetically d. MT-9006] 1 [Contd...

| 3. | What should be the temperature of water in hydrotherapy unit? a. 27* - 35*C b. 22*C - 42*C c 32*C - 35*C d. None of above |
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| 4. | For the group therapy, maximum number of patients in group is about a. $4-6$ b. $6-8$ c. $8-10$ d. More than 10 |
| 5. | Valsalva maneuver should be avoided fora. Patients with hypertension b. Geriatric patients c. Patients who undergone abdominal surgery d. All of the above |
| 6. | Delayed onset muscle soreness peaks at a. 1 - 2 days b. 2 - 3 days c. 1 week d. None of above |
| 7. | Ballistic stretching is helpful fora. Musculoskeletal patients b. Neurological patients c. Athlets d. All of above |
| 8. | Double support phase is present in the phase of gait cycle a. Beginning of stance b End of stance c. Both of above d. Mid stance |
| 9. | The principle of Frenkle's Co – Ordination exercise is/are a Precision b. Attention c. Repetition d. All of above |
| 10. | Poor posture a. Energy consuming, so gives rise to early fatigue b. Looks aesthetically ugly c. Gives rise to painful masculoskeletal problem d. All of above |

SECTION - II

| 5 | Lon | g Essay : (Any Two) | 20 |
|-----|------|---|----|
| | 1. | Define gait. Describe about the phases of gait cycle in | |
| | 2. | walking. Discuss the kinetics & kinematics of lumbar spine. | |
| | 3. | Scapula humeral rhythm & its clinical significance. | |
| 6 | Sho | rt Essay : (Any Two) | 10 |
| | 1. | Pelvic tilt | |
| | 2. | Prehension activities of hand | |
| | 3. | Facet Joints: its importance in spinal movements | |
| 7 | Wri | te any five : | 10 |
| | 1. | Stress – strain curve | |
| | 2. | Lumbo – pelvic rhythm | |
| | 3. | Ulnar variance | |
| | 4. | Function of anterior cruciate ligament | |
| | 5. | Screw home mechanism | |
| | 6. | Relation between line of gravity & centre of gravity | |
| 8 | MC | Qs : | 10 |
| | 1. | In biaxial joint, bony component moves in: | |
| | | a. 4 plane | |
| | | b. 2 plane | |
| | | c. 3 plane | |
| | | d. 1 plane | |
| | 2. | Load – deformation curve provides information about : | |
| | | a. Elasticity | |
| | | b. Plasticity | |
| | | c. Ultimate strength | |
| | | d. All of above | |
| | 3. | The muscle work done by muscle during an | |
| | | is called negative work: | |
| | | a. Concentric contraction | |
| | | b. Eccentric contraction | |
| | | c. Isometric contraction d. Isokinetic contraction | |
| | _ | | |
| | 4. | Superior facet joint of thoracic region faces: | |
| | | a. Superiorly & medially | |
| | | b. Superiorly & laterally | |
| | | c. Anteriorly & medially d. Anteriorly & inferiorly | |
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| 5. | Sternoclavicular joint allows degree of freedom? |
|-----|---|
| | a. 3* |
| | b. 6* |
| | c. 4* |
| | d. 2* |
| | a. 2 |
| 6. | Glenohumeral. joint is a; |
| | a. Ball & socket joint |
| | b. Hinge joint |
| | c. Gomphosis joint |
| | d. Ovoid joint |
| 7. | What are the angulation in femur called ? |
| | a. Angle of inclination |
| | b. Carrying angle |
| | c. Angle of torsion |
| | d. Both (a) & (c) |
| | a. 2001 (a) a (b) |
| 8. | During posterior pelvic tilt, symphysis pubis moves |
| | a. Laterally |
| | b. Posteriorly |
| | c. Superiorly |
| | d. Inferiorly |
| 0 | |
| 9. | The LOG passes through the body of |
| | a. L5 |
| | b. S1 |
| | c. S2 |
| | d. None of above |
| 10. | Stance phase makes up approximately of |
| | gait cycle |
| | a. 50% |
| | b. 40% |
| | c. 60% |
| | d. 80% |
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