

**BACHELOR OF PHYSIOTHERAPY
SIXTH SEMESTER
PHYSICAL DIAGNOSIS & THERAPEUTIC SKILLS
BPT – 605**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

(Objective)

Marks: 20

Choose the correct answer from the following:

1×20=20

- How much VO₂ Max defines moderate intensity in exercise prescription?
 - < 55%
 - < 35%
 - < 75%
 - < 60%
- An elite athlete can reach upto how much MET in his/her lifetime?
 - 25 MET
 - 15 MET
 - 55 MET
 - 10 MET
- Who invented the concept of Isokinetic exercise in the late 1960?
 - De Lormes
 - M Backer
 - Mc Queen
 - J Perrine
- Which PNF technique is/are based on Sherrington's Law of Successive Induction?
 - Slow Reversal
 - Contract Relax
 - Hold Relax Antagonist
 - Both a & c
- Who postulated the concept of synergistic movement pattern?
 - J Ayres
 - Brunnstrom
 - Car & Shepherd
 - J Cameron
- Backstroke in swimming is an example of which of the following pattern?
 - D 1 Extension
 - D 2 Extension
 - D 2 Flexion
 - D 1 Flexion
- In the newborn NCV is approximately what percentage of adult?
 - 25%
 - 50%
 - 100%
 - 75%
- All of the following can affect H reflex latency except which of the following?
 - Height
 - Demyelinating motor neuropathy
 - Weight
 - Demyelinating sensory neuropathy
- What was the profession of Lawrence Jones who introduced PRT technique?
 - Osteopaths
 - Physical Therapist
 - Chiropracts
 - Physicians

10. Post facilitation stretch technique of MET was developed by whom?
 - a. V Janda
 - b. J Barnes
 - c. F Mitchell
 - d. K Levitt
11. Choose the correct answer from the following?
 - a. Peroneal F wave high in latency
 - b. F response may be absent in sedation
 - c. F wave can't detect early radiculopathy
 - d. All options are correct
12. "Pezzi Balls" was developed by which of the following individual?
 - a. Vogelbach
 - b. Cosani
 - c. Mayer
 - d. Salter
13. Which manual therapy school concept is - "Dysfunctions of body is due to the vertebra"?
 - a. Chiropractic
 - b. Mennel
 - c. Osteopath
 - d. Mc Kenzie
14. Loose pack position of humeroulnar joint mobilization is which of the following?
 - a. Full extension & supination
 - b. 15 degree flexion 5 degree supination
 - c. 70 degree flexion & 10 degree supination
 - d. 10 degree supination
15. According to Mc Kenzie if periarticular structures are tight what will be the diagnosis?
 - a. Dysfunctional syndrome
 - b. Derangement syndrome
 - c. Postural syndrome
 - d. Pain syndrome
16. How much rest period is necessary in assessing grip strength in dynamometer?
 - a. 15 sec
 - b. 30 sec
 - c. 90 sec
 - d. 1 min
17. What should be the speed of Isokinetic device to gain muscle endurance?
 - a. 45-90 degree / sec
 - b. < 90 degree / sec
 - c. 10-360 degree / sec
 - d. > 180 degree / sec
18. Which of the following physician authorized physiotherapist to practice manual therapy?
 - a. A T Still
 - b. J Mennel
 - c. D D Palmer
 - d. J Cyriax
19. Which of the following is a normal response in Slump test?
 - a. Stage 4 Pain in Piriformis
 - b. Stage 3 Pain in T 8-9 area
 - c. Stage 5 Pain in Sciatic nerve course
 - d. Stage 2 Spondylolytic Pain
20. Which of the following is an example of Empty abnormal end feel?
 - a. Synovitis
 - b. Myositis Ossificans
 - c. Abscess
 - d. Spasticity

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(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. Define manual therapy, manipulation & mobilization. Compare & contrast Various schools of thought of Manual therapy. Explain Kaltenborn grades Of mobilization with its rationales & concave convex rule. 3+3+4
=10
2. What are the advantages of Isokinetic device? Discuss exercise prescription guidelines in detail. 5+5=10
3. Explain Isokinetic dynamometry with its data interpretation. What are the uses & principles of a CPM device? 6+4=10
4. Elaborate methods of Pulmonary toilet & explain any one. Compare & Contrast Slow reversal & Rhythmic stabilization techniques [PNF] with example. 6+4=10
5. What is the concept behind MET? Explain types of muscle contraction that happens during MET. Discuss PNF basic facilitation procedure. 1+4+5
=10
6. Write a note on motor unit action potential [MUAP]. What are the late responses that are usually examine in nerve conduction study [NCS]? 4+6=10
7. Discuss Elvy's test in detail with its clinical significance. Describe the mechanism behind positional release therapy [PRT]? 6+4=10
8. What is the role of Pressure Biofeedback in rehabilitation? Describe Mulligan's mechanism of action. What is SNAGs & list out criteria for SNAG treatment approach? 2+4+4
=10

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[3]