

Rajiv Gandhi University of Health Sciences, Karnataka

Second Year Master of Physiotherapy Degree Examination – 14-Nov-2025

[Time: 3 Hours]

[Max. Marks: 100]

Measurement and Assessment in Movement - Paper -III (RS-4)

Q.P. CODE: 8149

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

Answer All The Questions

10 X 10 = 100 Marks

1. Describe the assessment of the whole person who has to be rehabilitated after a prolonged bed rest due to a systemic illness. Justify your answer with relation to physiology of prolonged inactivity.
2. Describe the anatomical adaptations to exercise in various systems.
3. Discuss the role of biochemical markers in assessment and prescription of strength training. What are the limitations of these markers?
4. Compare and contrast the musculoskeletal biomechanics in a child of 8 years, an adolescent girl of 17 years and a woman over 60 years. How would these factors affect your assessment protocol for physical fitness prescription?
5. Compare and contrast the assessment of gait using subjective naked eye observation, using a standardised quality assessment form and quantitative laboratory analysis.
6. What are the parameters of balance that can be assessed? What are the valid methods of clinical analysis?
7. A 37 year old lady reports to the department with a history of shoulder pain. All investigations are normal. Her BMI is 33 and she reports that since the Covid pandemic she has been working from home as a social media marketer. What are your hypotheses for her shoulder pain? What assessments would you do to rule out serious pathology? Justify your choice of tests and measures.
8. What are the strengths and limitations of observational balance analysis tools? Explain with examples.
9. What are the indications for instrumented gait evaluation? Discuss strengths and limitations of instrumented and clinical assessment of gait in children with gait dysfunction.
10. A 25 year old student a known case of untreated congenial talipes equinovarus presents with new onset history of back pain. Your initial hypothesis is that it is related to early degenerative changes from the affected limb. How would you proceed with assessment? Justify.

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