

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T Degree Examination - SEP - 2016

Time: Three Hours

Max. Marks: 100 Marks

BM-MECHANICS (R5-5)

Q.P. CODE: 2734

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

x 10 = 20 Marks

1. Explain the structure of shoulder joint. Write about the dynamic stabilizers of shoulder joint.
2. Write in detail the properties of connective tissues,
3. Name the ligaments of knee joint? Explain in detail the screw home mechanism in weight bearing and non-weight bearing positions of knee joint,

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Load - deformation curve

5. Explain joint lubrication models.

6. What are the types of muscle contractions? Write a brief note on eccentric and concentric contraction.
7. Kinematics of rib cage during ventilation
8. Note on Lumbo-pelvic rhythm
9. Write in detail about concave-convex rule with example.
10. What are the types of grips? Write in brief about tip-to-tip prehension with example.
11. Analyze the forces acting on hip joint during unilateral stance
12. Write a note on tibiofemoral meniscus.
13. Explain Newton's law of motion with examples.
14. Write about structure and function of plantar arches.
15. Analyze an ideal posture from anterior and lateral directions
16. Define lever. Write the types of lever with examples.
17. Write a note on diarthrodial joints.

SHORT ANSWERS

10 x 2 = 20 Marks

18. Carrying Angle
19. Movements of patella
20. Anatomical pulley with example

21. Types of posture

22. Write the names of muscle proteins
23. Odd facet
24. Angle of Inclination
25. Patella plica
26. Planter aponeurosis

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27. Two postural deviations in saggital plane

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