

n. 3063-09.

VR-3813

(REVISED COURSE)

(3 Hours)

[Total Marks : 100

- B. : (1) Question No. 1 is **compulsory**.
 (2) Attempt any **four** questions from the remaining **six** questions.
 (3) **Figures** to the **right** indicate **full** marks.
 (4) Illustrate answers with **sketches** whenever **required**.

Explain with neat sketches Normal Gait Cycle. Explain each stage with its functional application. 20

- (a) What is a lever? Explain the different types of lever with at least two anatomical examples in each type. 15
 (b) Draw & explain Synovial joint in detail and list the different types of Synovial joint. 5
- (a) Explain Bio Mechanics of Bone. 8
 (b) Classify the force system. Explain the principle of three point pressure with at least three examples. 12

Discuss the criteria for providing Spinal Orthosis. List major Spinal Orthosis and describe one of them with diagram. 20

- (a) Explain using suitable sketches Below Elbow Prothesis. 10
 (b) Explain using suitable diagram HKAFO. 10
- (a) Explain Lamination procedure of the PTB. 10
 (b) Explain Patient Rehabilitation concept & how it helps the patient. 10

Write short notes on: (any **four**) :— 20

- (a) Stress - Strain curve
 (b) Transducers in P & O
 (c) Milwaukee Brace
 (d) Jaipur Foot
 (e) Terminal devices
 (f) Stress - Strain curve.