

**M. S. (ORTHOPAEDICS): Winter-2022**  
**SUBJECT : PAPER – I : BASIC SCIENCE AS APPLIED TO ORTHOPAEDICS**

Day : Friday  
Date : 16.12.2022

Time : 1.30.P.M. To 4.30 P.M.  
Max. Marks : 100

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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**Q. 1** Describe the pathophysiology of septic shock and discuss the management. (15)

**Q. 2** Discuss the etiology, investigations in a case of osteoporosis. How will you manage a case of osteoporosis in a post-menopausal lady? (15)

**Q. 3** Write briefly **ANY SEVEN** of the following: (70)

- a) Biodegradable Implants
- b) PET scan
- c) Artificial intelligence in orthopedics
- d) Locking plates
- e) Wallerian degeneration
- f) Dual mobility hip arthroplasty
- g) Blood conservation methods
- h) Hand to knee gait

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