

BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY) PUNE, INDIA

M.D. (ANAESTHESIA): *Winter-2022*

SUBJECT: PAPER-IV

**ANAESTHESIOLOGY INCLUDING CRITICAL CARE, PAIN MEDICINE AND
RECENT ADVANCES**

Day: *Friday*

Date: *23-12-2022*

W-725-2022 **Time:** *1:30 P.M. TO 4:30 P.M.*

Max. Marks: 100

N.B.:

- 1) Draw Diagrams **WHEREVER** necessary.
-

Long Questions

(15 Marks Each)

- Q.1** Enumerate the criteria and neurological tests for diagnosis of brain death. Describe the anaesthetic management of a brain dead patient scheduled for organ harvesting.
- Q.2** Define pain? Explain Complex Regional Pain Syndromes (CRPS), its types and various modalities of management of a case of CRPS.

Semi-Long Questions (Answer ANY SEVEN)

(10 Marks Each)

- Q.3** Discuss the recent Fasting and Feeding guidelines in perioperative and anaesthesia practices.
- Q.4** Enumerate types of Lasers used in medical practice. Describe the preoperative considerations for use of lasers in airway surgeries.
- Q.5** Describe the pharmacodynamics and pharmacokinetics of magnesium sulphate. What is the role magnesium sulphate in anaesthesia and critical care practice?
- Q.6** Write about Thrombo-elastography (TEG) and its importance in anaesthesia practice.
- Q.7** Write about enteral and Total parenteral nutrition. Mention the advantages of enteral nutrition over parenteral nutrition.
- Q.8** Discuss the sensitivity and practical use of various monitoring modalities for detection of venous air embolism.
- Q.9** Universal Adult cardiac arrest algorithm.
- Q.10** Patterns of nerve stimulation used for evaluation of neuromuscular function.

* * * * *