

MANIPAL ACADEMY OF HIGHER EDUCATION
MDS PART - I (ORAL AND MAXILLOFACIAL SURGERY) DEGREE
EXAMINATION – AUGUST 2025

SUBJECT: PAPER I - APPLIED BASIC SCIENCES

Friday, August 01, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw Diagrams and Flowcharts wherever necessary.**

1. Surgical anatomy of External Carotid artery. Add a note on External Carotid artery ligation.
(5+5 = 10 marks)
2. Fluid and electrolyte balance in oral and maxillofacial surgery.
(10 marks)
3. Define Pain. Theories of pain conduction. Discuss the pain pathway from the face.
(2+3+5 = 10 marks)
4. Blood components and role of Blood transfusion.
(5+5 = 10 marks)
5. Posterior triangle of the neck and applied aspects.
(10 marks)
6. Stages of General anesthesia. Add a note on Preanaesthetic medication.
(5+5 = 10 marks)
7. Development of face.
(10 marks)
8. Physiology of deglutition and applied aspects.
(10 marks)
9. Describe in detail the mechanism and various types of wound healing. Add on note on influence of uncontrolled diabetes on wound healing process.
(6+4 = 10 marks)
10. Culture and sensitivity in odontogenic infections.
(10 marks)

