

Roll No.

Total No. of Pages : 02

Total No. of Questions : 11

M.Sc (Medical Technology-Anaesthesia & Operation Theatre) (Sem.-3)

ADVANCED SURGICAL TECHNIQUES

Subject Code : MAOTT303-21

M.Code : 92665

Date of Examination : 16-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

1. Answer all of them

- a) What is robotics? Discuss its various application in the field of science.
- b) Define microsurgery along with its uses.
- c) What is a flexible endoscope and how does it work?
- d) Discuss the important laser safety measures to follow.
- e) Elaborate on the principle of plasma scalpel.
- f) Describe the types and components of electrosurgery.
- g) Write the clinical applications & complications of ultrasonic dissection in laparoscopic surgery.
- h) Discuss the advantages and disadvantages of radiofrequency ablation.
- i) What are various safety precautions needed to be taken while using an argon beam coagulator?
- j) Define argon beam coagulation & its medical use.

SECTION-B

2. Discuss the various types and medical uses of laser technology.
3. Describe the essential steps for flexible endoscope reprocessing along with risk factors.
4. Explain the various applications & complications of robotics in the medical field and healthcare.
5. Discuss the uses & advantages of plasma scalpels over traditional scalpels.
6. How is the sterilization & care performed on the operating microscope?
7. Describe the principle and uses of the harmonic scalpel.
8. Elaborate in detail working, the advantages and disadvantages of argon beam coagulators.
9. Explain the radiofrequency ablation technique along with various safety features.

SECTION-C

10. Explain in detail the principle, types, uses & safety of laser technology.

OR

Elaborate handling, care & various sterilization techniques used in operating microscope.

11. Explain the principle, uses, and advantages of plasma scalpel over electrosurgery in detail.

OR

Describe the procedure, safety features & advantages, and disadvantages of the radiofrequency ablation technique.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.