



All India Institute of Medical Sciences, Kalyani
B.Sc. OTT First Year Final Examination, August 2024

Time: 3 Hrs. Basics of Anaesthesia & Surgery Marks: 100

INSTRUCTIONS:

- Answer Basics of Anaesthesia & Surgery Section in separate answer booklets.
- Draw diagram wherever necessary

Basics of Anaesthesia

Brief Answer Questions:

(4×5=20)

1. What are the components of blood for transfusion? Enumerate the common blood groups. (3+2)
2. How would you segregate Bio Medical Waste in the operation theatre? Name the process of destruction of HIV positive biomedical waste. (4+1)
3. Preoperative fasting guidelines. What are different types of fluids used in operation theatre. Give example. (2+3)
4. Mention the concerns of shifting the patient from OT to recovery room. What is the standard monitoring required in the postoperative room? (3+2)

Long Answer Questions:

(2×10=20)

5. Enumerate the chain of survival for in hospital resuscitation of a collapsed adult victim. What are the points to remember to ensure good quality CPR ? (5+5)
6. What are the components of general anaesthesia? Discuss the role of a technician in securing the airway of the patient for general Anaesthesia. Enumerate the types of regional anaesthesia and the drugs used in regional anaesthesia. (3+3+4)



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Enrollment No. _____

Invigilator sign: _____

SECTION C (Basics of Anaesthesia)

INSTRUCTIONS:

- Section C (Basics of Anaesthesia & Surgery) should be answered in first 20 minutes of the Exam duration and handed over to the invigilators.
- Put one Tick (✓) mark to only one answer that you consider correct for each question.
- Mark your Tick (✓) in pen.

Multiple Choice Questions (MCQs):

[10x1=10]

1. AED stands for:
 - a. Automated External Defibrillator
 - b. Automatic External Device
 - c. Automated External Device
 - d. Auto External Defibrillator
2. What is the color-coding of the bags used in hospitals to dispose plastic waste, gloves and other recyclable items?
 - a. Blue
 - b. Red
 - c. Black
 - d. Yellow
3. An example of an opioid analgesic is
 - a. Aspirin
 - b. Acetaminophen
 - c. Ibuprofen
 - d. Fentanyl
4. Anaesthesia very suitable for upper limb surgery is
 - a. General Anaesthesia
 - b. Local Anaesthesia
 - c. Brachial plexus block
 - d. Spinal Anaesthesia
5. What mixture of gases is used in general Anaesthesia?
 - a. O₂ and CO₂
 - b. O₂ and N₂O
 - c. CO₂, O₂ and N₂O
 - d. Air and N₂O
6. An instrument used to measure a patient's blood pressure is called as
 - a. Stethoscope
 - b. Sphygmomanometer
 - c. Telescope
 - d. Otoscope
7. CPR compression to breath ratio in adults:
 - a. 15:1
 - b. 15:2
 - c. 30:1
 - d. 30:2
8. Color of 16G I.V. cannula:
 - a. Green
 - b. Pink
 - c. Blue
 - d. Gray
9. Color of Oxygen Cylinder :
 - a. black body white shoulder
 - b. blue
 - c. black body blue shoulder
 - d. white
10. The B type Oxygen Cylinder has a
 - a. Flush Valve
 - b. APL valve
 - c. Bull Nose Valve
 - d. Exit Valve



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Basics of Anaesthesia & Surgery

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Basics of Surgery

Brief Answer Questions:

(4×5=20)

1. What is universal precaution? How do you take universal precaution? What are the components of Personal Protection Equipment? How will you segregate bio medical waste in wards? (1+1+1+2)
2. Name different types of urethral catheters that you know? Enumerate the steps of urethral catheterization and Nasogastric tube insertion? (1+2+2)
3. What is sterilization and disinfection? Mention various methods of sterilization of OT instruments? (1+1+3)
4. How many different patient position do you know in OT table? Mention each procedure according to the patient position? What is the final position of patient in Laparoscopic Cholecystectomy procedure? (2+2+1)

Long Answer Questions:

(2×10=20)

5. Name four common surgeries that you have seen in General Surgery OR? Mention one indication, position of patient, painting & draping methods and instrument trolley components of any one of the surgery? (4+1+1+1+1+2)
 6. Describe the steps of hand rubbing? What are the five moments of hand hygiene? What is used for hand washing and hand rubbing? How long do you perform hand washing and hand rubbing? (3+5+1+1)
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SECTION C (Basics of Surgery)

INSTRUCTIONS:

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- Put one Tick (✓) mark to only one answer that you consider correct for each question.
- Mark your Tick (✓) in pen.

Multiple Choice Questions (MCQs):

[10x1=10]

1. How much time is required for a proper hand rubbing?
 - a. 60 sec
 - b. 120 sec
 - c. 30 sec
 - d. 3 min
2. All steps should be taken in a needle stick injury except?
 - a. Rinse the area with soap and water
 - b. Scrub the affected area
 - c. Report the incident
 - d. Track serology of patient
3. Polydioxanon suture is?
 - a. Absorbable
 - b. Non-Absorbable
 - c. Non-Absorbable Monofilament
 - d. Absorbable Monofilament
4. Metallic ornaments to be avoided in patients who is being planned for?
 - a. General anaesthesia
 - b. Local anaesthesia
 - c. Electrocautery
 - d. Harmonic Scalpel
5. Name the instrument used for creation of pneumoperitoneum in laparoscopic cholecystectomy?
 - a. Chiba's needle
 - b. Veress needle
 - c. Abram's needle
 - d. Lock's needle
6. In which surgery do you use a mesh for repair?
 - a. Hydrocele Surgery
 - b. Hernia Surgery
 - c. Breast Surgery
 - d. Thyroid Surgery
7. What is trendelenberg position in OT table?
 - a. Head down
 - b. Head up
 - c. Right lateral
 - d. Left lateral
8. Expired medicines is discarded in which colour coded bin?
 - a. Red
 - b. Yellow
 - c. White
 - d. Black
9. Which solution is used for balloon insufflation in Foley's catheter?
 - a. Normal Saline
 - b. Ringer Lactate
 - c. D5
 - d. Sterile Water
10. Which of the following is not a component of PPE?
 - a. Mask
 - b. Gloves
 - c. Helmet
 - d. Face shield