

WRITTEN TEST FOR MFCP OF TECH. ASST. (ANAESTHESIA) A TO B

1. A size "E" compressed-gas cylinder completely filled with N₂O contains how many liters?
A. 1160 L B. 1470 L C. 1590 L D. 1640 L
2. What is the pressure of a full E oxygen (O₂) cylinder?
A. 2200 psi B. 1000 psi C. 1500 psi D. 1590 psi
3. What is the induction dose of propofol in a healthy adult patient?
A. 1 to 2 mg/kg intravenous
B. 5 to 10 mg/kg intravenous
C. 5 to 10 microgram/kg intravenous
D. 1 to 2 microgram/kg intravenous
4. What is the intubating dose of Atracurium?
A. Intubating dose: 0.5 to 0.6 mg/kg C. Intubating dose: 5 to 10 mg/kg
B. Intubating dose: 1 to 2 mg/kg D. Intubating dose: 1 to 2 microgram/kg
5. When electrocardiogram (ECG) electrodes are placed for a patient undergoing a magnetic resonance imaging (MRI) scan, which of the following is true?
A. Electrodes should be as close as possible and in the periphery of the magnetic field
B. Electrodes should be as close as possible and in the center of the magnetic field
C. Placement of electrodes relative to field is not important as long as they are far apart
D. ECG cannot be monitored during an MRI scan
6. Which of the following systems prevents attachment of gas-administering equipment to the wrong type of gas line?
A. Pin index safety system C. Fail-safe system
B. Diameter index safety system D. Proportion-limiting control system
7. Which of the following arrangements of rotameters on the anesthesia machine manifold is safest with left-to-right gas flow?
A. O₂, CO₂, N₂O, air C. Air, CO₂, O₂, N₂O
B. CO₂, O₂, N₂O, air D. Air, CO₂, N₂O, O₂
8. The minimum macroshock current required to elicit ventricular fibrillation is:
A. 1 mA B. 10 mA C. 100 mA D. 500 mA
9. Which one of the following is INCORRECT regarding Pin index system?
A. Air 1, 5 C. Nitrous oxide 3, 5
B. Oxygen 2, 5 D. Carbon dioxide (<7.5% in O₂) 2, 4

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10. During suctioning, the ratio of outside diameter of suction catheter to inside diameter of endotracheal tube should be:
- A. 1:3 B. 1:2 C. 3:4 D. 1:8
11. For transfusion of FFP select the CORRECT statement:
- A. Cross-matching should always be done
B. Cross-matching is not required, but ABO compatible plasma should be selected
C. ABO compatible plasma is not required
D. All above statements are wrong
12. The most sensitive means of detecting venous air embolism is:
- A. End-tidal CO₂ C. Pulmonary arterial catheter
B. Doppler probe D. Transesophageal echocardiography
13. Blood products that transmit viruses include all the following EXCEPT:
- A. Fresh frozen plasma C. Cryoprecipitate
B. Platelets D. Albumin
14. Recommendations to protect medical staff from AIDS include all the following EXCEPT:
- A. gloves C. gowns
B. resheathing needles D. goggles
15. Which one of the following is FALSE?
- A. Calibration of the transducer is an adjustment in system gain to ensure proper response to a known reference pressure value.
B. Zeroing exposes the transducer to ambient atmospheric pressure through an open stopcock.
C. Leveling assigns the zero reference point to a specific position on the patient's body.
D. Raising the patient above the transducer will produce spuriously low pressures.
16. Regarding electrocardiography, which one of the following is FALSE?
- A. A main source of artifact from ECG leads is loss of integrity of lead insulation.
B. Electrocautery is an important source of interference on the ECG in the operating room.
C. To avoid the problem of muscle artifact, electrodes should be placed over bony prominences, whenever possible.
D. Signal loss cannot occur at the skin electrode interface and therefore it is not necessary to prepare skin optimally before placing electrodes.

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17. Which one of the following is FALSE regarding oxygen E cylinders?
- A. As the cylinder empties, remaining gauge pressure is not proportionate to the number of liters of oxygen left in the cylinder.
 - B. A full cylinder contains 625 liters of oxygen.
 - C. A full cylinder has a pressure of 2000 PSIG.
 - D. The pressure-reducing valve on the cylinder will allow oxygen to exit at 45 to 51 PSIG.
18. Which one of the following is TRUE?
- A. Boiling (100°C) for 15 minutes kills bacteria, but spores may escape destruction.
 - B. Australian antigen virus is destroyed by boiling.
 - C. Autoclaving is not useful for metal objects and fabrics.
 - D. Disinfection achieves the same reduction in microbial contamination levels as sterilization
19. The pressure and volume per minute delivered from the central hospital oxygen supply are:
- A. 2100 psi and 650 L/min
 - B. 1600 psi and 100 L/min
 - C. 75 psi and 100 L/min
 - D. 50 psi and 50 L/min
20. The normal vital capacity for a 70-kg man is
- A. 1 L
 - B. 2 L
 - C. 5 L
 - D. 7 L
21. What is the storage life of whole blood stored with citrate phosphate dextrose (CPD)?
- A. 14 days
 - B. 21 days
 - C. 35 days
 - D. 42 days
22. A Eutectic Mixture of Local Anesthetics (EMLA) cream is a mixture of which local anesthetics?
- A. Lidocaine 2.5% and prilocaine 2.5%
 - B. Lidocaine 2.5% and benzocaine 2.5%
 - C. Prilocaine 2% and benzocaine 2%
 - D. Lidocaine 4%
23. Which one of the following statements regarding positioning of the patient is FALSE?
- A. Ulnar nerve injuries are the most common.
 - B. The common peroneal nerve is likely to be injured by stirrups; inability to dorsiflex the foot results
 - C. The anaesthetized patient is likely to have exaggerated changes in blood pressure in response to changes in body position
 - D. When placed on arm-boards, the arms may be safely abducted to 120 degrees without causing neural injury.

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24. Gas from an N₂O compressed-gas cylinder enters the anesthesia machine through a pressure regulator that reduces the pressure to
- A. 60 psi B. 45 psi C. 30 psi D. 15 psi
25. The greatest source for contamination of the Operating Room atmosphere is leakage of volatile anesthetics
- A. Around the anesthesia mask
B. At the vaporizer
C. At the CO₂ absorber
D. At the endotracheal tube
26. Which one of the following is the drug of choice for the treatment of anaphylaxis?
- A. Phenylephrine
B. Noradrenaline
C. Adrenaline
D. Steroid
27. Select the FALSE statement regarding noninvasive arterial BP monitoring devices.
- A. If the width of the BP cuff is too narrow, the measured BP will be falsely lowered
B. The width of the BP cuff should be 40% of the circumference of the patient's arm
C. If the BP cuff is wrapped around the arm too loosely, the measured BP will be falsely elevated
D. Frequent cycling of automated BP monitoring devices can result in edema distal to the cuff
28. Each of the following is cited as an advantage of calcium hydroxide lime (Amsorb Plus, Drägersorb) over soda lime EXCEPT
- A. Compound A is not formed
B. CO is not formed
C. More absorptive capacity per 100 g of granules
D. It does not contain NaOH or KOH
29. Basic Life Support single rescuer cardiac compression-ventilation ratio for infant, child and adult victims (excluding newborns) is
- A. 10:1 B. 15:2 C. 30:2 D. 60:2

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30. Which one of the following is a disadvantage of steam sterilization?
- A. Adequate penetration into a pack may not occur with large packs
 - B. All spores may not be killed
 - C. Danger to processing personnel
 - D. Instrument damage
31. Which one of the following is FALSE regarding plasma sterilization?
- A. No worker exposure or environmental contamination
 - B. Presence of toxic residues
 - C. Compatible with ceramics, silica, glass, and many plastics
 - D. Sterilized products are immediately available for use
32. Advantages of Ethylene Oxide sterilization include all the following EXCEPT:
- A. Items can be pre-packaged
 - B. A large amount of equipment can be sterilized at one time
 - C. It can be used for items that heat or moisture could damage
 - D. Short processing time
33. The best way to detect an esophageal intubation is:
- A. Seeing the tube pass through the vocal cords
 - B. Observing chest wall movement during inspiration and exhalation
 - C. Hearing breath sounds during controlled ventilation
 - D. Monitoring CO₂ in exhaled gases
34. All the following are true regarding cleaning and sterilizing the Laryngeal Mask Airway (LMA) EXCEPT:
- A. It should first be washed with detergent and water
 - B. The LMA can be sterilized by using the steam autoclave
 - C. Ethylene oxide should not be used to sterilize the LMA
 - D. The LMA can be soaked in liquid chemical agents for up to 30 minutes
35. The likelihood of a fire is reduced by all the following measures EXCEPT:
- A. Cracking the cylinder valve before use
 - B. Opening the cylinder valve slowly
 - C. Storing pressure regulators in plastic bags
 - D. Keeping the cylinder draped during storage

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36. Which one of the following is FALSE regarding Cracking a cylinder valve?
- A. Is momentarily opening it to blow away foreign matter from the outlet
 - B. Should be performed before attachment of a dispensing device
 - C. Reduces the likelihood of flash fires
 - D. Refers to a fracture of the stem of the valve
37. Etomidate is a:
- A. Intravenous anesthetic
 - B. Inhalational anesthetic
 - C. Topical anesthetic
 - D. Intramuscular anesthetic
38. Which one of the following statements is FALSE?
- A. Subarachnoid puncture above the L2-L3 interspace may result in cord injury.
 - B. Epidural anaesthesia involves blockage of nerve roots outside the dura.
 - C. 'Loss of resistance to injection test' is used for subarachnoid block.
 - D. Total central neurological blockade (total spinal analgesia) is a dreaded complication of attempted epidural block.
39. Mallampati classification is used to predict which one of the following?
- A. Difficulty in laryngoscopy
 - B. Difficulty in intravenous cannulations
 - C. Difficulty in arterial cannulations
 - D. Difficulty in weaning from ventilator
40. Which one of the following is Mapleson 'A' circuit?
- A. Mc-Intosh circuit
 - B. Ayre's T piece
 - C. Jackson-Rees circuit
 - D. Magill circuit
41. When one of the following agents is exposed to soda-lime or baralyme, it is absorbed and degraded to a variety of compounds including compound A. Compound A has been found to be toxic in rats, causing lung and renal damage. Identify the agent.
- A. Halothane
 - B. Isoflurane
 - C. Sevoflurane
 - D. Desflurane
42. Which one of the following statements regarding tramadol, is FALSE?
- A. It is a synthetic opioid
 - B. It is effective for treating moderate postoperative pain
 - C. It has a low potential for abuse
 - D. Tramadol is notorious for causing severe respiratory depression

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43. Which one of the following is FALSE?
- A. Platelets can be infused through a standard administration set with a 170 micron filter
 - B. Fresh frozen plasma (FFP) is rich in platelets.
 - C. Cryoprecipitate is rich in factor VIII and fibrinogen
 - D. Plasma product transfusions should be ABO compatible.
44. Which one of the following is CORRECT regarding Normal saline?
- A. It has 154 mEq/L of sodium.
 - B. It has 100 mEq/L of chloride.
 - C. It has 140 mEq/L of sodium.
 - D. It has 140 mEq/L of chloride
45. Which one of the following drugs does NOT have the potential to trigger malignant hyperthermia?
- A. Succinylcholine
 - B. Isoflurane
 - C. Sevoflurane
 - D. Thiopental
46. Moderate hypothermia is defined as:
- A. 34 to 32 degree Celsius
 - B. 32-26 degree Celsius
 - C. 20-25⁰ degree Celsius
 - D. 18 degree Celsius
47. The pattern of neural stimulation which is most useful for monitoring profound neuromuscular blockade (NMB) is:
- A. Train-Of-Four (TOF).
 - B. Double Burst Stimulation (DBS).
 - C. 50 hz tetanic burst (T50).
 - D. Post-tetanic Count (PTC).
48. Which of the following inhalational agent will boil at room temperature?
- A. Halothane
 - B. Desflurane
 - C. Enflurane
 - D. Methoxyflurane
49. Phenylephrine is a
- A. Vasoconstrictor
 - B. Vasodilator
 - C. Diuretic
 - D. Inotropic agent
50. Adrenaline ampoule contains:
- A. 1 in 1000 solution
 - B. 1 in 100 solution
 - C. 1 in 10 solution
 - D. 1 in 10000 solution

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ANSWER KEY

1	C	21	B	41	C
2	A	22	A	42	D
3	A	23	D	43	B
4	A	24	B	44	A
5	B	25	A	45	D
6	B	26	C	46	B
7	D	27	A	47	D
8	C	28	C	48	B
9	D	29	C	49	A
10	B	30	D	50	A
11	B	31	B		
12	D	32	D		
13	D	33	D		
14	B	34	D		
15	D	35	D		
16	D	36	D		
17	A	37	A		
18	A	38	C		
19	D	39	A		
20	C	40	D		