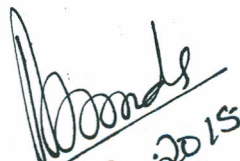


WRITTEN TEST FOR MFCP OF TECHNICAL ASSISTANT

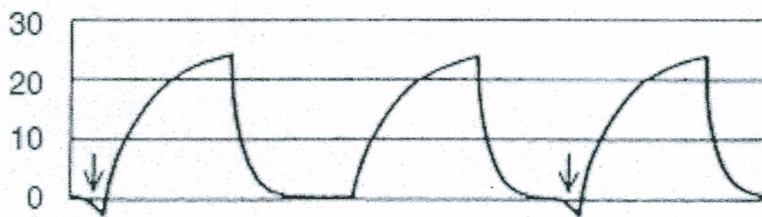
(ANAESTHESIOLOGY) HELD ON 08/07/2015 (A to B)

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. Which of the following valves prevents transfilling between compressed-gas cylinders?
A. Fail-safe valve
B. Check valve
C. Pressure-sensor shutoff valve
D. Adjustable pressure-limiting valve
3. Currently, the commonly used vaporizers (e.g., GE-Datex-Ohmeda Tec 4, Tec 5, Tec 7; Dräger Vapor 19.n and 2000 series) are described as having all of the following features **EXCEPT**
A. Agent specificity
B. Variable bypass
C. Bubble through
D. Temperature compensated
4. A ventilator pressure-relief valve stuck in the closed position can result in:
A. Barotrauma
B. Hypoventilation
C. Hyperventilation
D. Low breathing circuit pressure
5. Which of the following systems prevents attachment of gas-administering equipment to the wrong type of gas line?
A. Pin index safety system
B. Diameter index safety system
C. Fail-safe system
D. Proportion-limiting control system
6. The minimum macroshock current required to elicit ventricular fibrillation is:
A. 1 mA
B. 10 mA
C. 100 mA
D. 500 mA
7. 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
8. 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
B. CO₂, O₂, N₂O, air
C. Air, CO₂, O₂, N₂O
D. Air, CO₂, N₂O, O₂


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(ANAESTHESIOLOGY) HELD ON 08/07/2015

9. The fundamental difference between microshock and macroshock is related to:
A. Location of shock B. Duration
C. Voltage D. Lethality
10. The correct location for placement of the V5 lead is:
A. Midclavicular line, third intercostal space
B. Anterior axillary line, fourth intercostal space
C. Midclavicular line, fifth intercostal space
D. Anterior axillary line, fifth intercostal space
11. The normal FEV1/FVC ratio is:
A. 0.95 B. 0.80 C. 0.60 D. 0.50
12. The normal vital capacity for a 70-kg man is:
A. 1 L B. 2 L C. 5 L D. 7 L
13. The diagram below depicts which mode of ventilation?



- A. Spontaneous ventilation B. Controlled ventilation
C. Assisted ventilation D. Assisted/controlled ventilation
14. 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
15. Sedation with which of the following drugs is most likely to resemble normal sleep?
A. Propofol B. Midazolam
C. Dexmedetomidine D. Ketamine
16. Which of the following muscle relaxants is most suitable for rapid intubation in a patient in whom succinylcholine is contraindicated?
A. Atracurium B. Rocuronium
C. Vecuronium D. Cisatracurium
17. Frozen erythrocytes can be stored for:
A. 1 year B. 3 years C. 5 years D. 10 years

WRITTEN TEST FOR MFCP OF TECHNICAL ASSISTANT
(ANAESTHESIOLOGY) HELD ON 08/07/2015

18. Which of the items below would be the most likely to cause sepsis?
A. Packed RBCs B. Cryoprecipitate
C. Platelets D. FFP
19. The rationale for storage of platelets at room temperature (22° C) is:
A. There is less splenic sequestration B. It optimizes platelet function
C. It reduces the chance for infection D. It decreases the incidence of allergic reactions
20. 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
21. 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%
22. Which of the following peripheral nerves is **MOST** likely to become injured in patients who are under general anesthesia?
A. Ulnar nerve B. Median nerve
C. Radial nerve D. Common peroneal nerve
23. A number 6 endotracheal tube indicates which size?
A. 6-mm internal diameter (ID) B. 6-mm external diameter
C. 6-mm external circumference D. 6-mm internal circumference
24. Decreased FEV1, normal FEV1/FVC ratio
A. Pulmonary emphysema B. Chronic bronchitis
C. Restrictive pulmonary disease D. Pulmonary emphysema and chronic bronchitis
25. Of the measures below, which is the **LEAST** useful in response to suspected Venous Air Embolism during a neurosurgical procedure in the upright position?
A. Application of 10 cm H2O PEEP B. Discontinuation of N2O
C. Placement of wax on cut bone edges D. Trendelenburg position
26. Which of the following concentrations of epinephrine corresponds to a 1:200,000 mixture?
A. 0.5 microgram/mL B. 5 microgram/mL
C. 50 microgram/mL D. 0.5 mg/mL

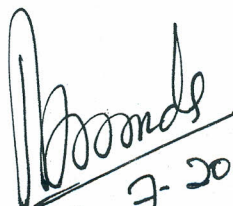
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WRITTEN TEST FOR MFCP OF TECHNICAL ASSISTANT
(ANAESTHESIOLOGY) HELD ON 08/07/2015

27. The dose range of Adrenaline (Epinephrine) infusion is:
A. 0.05 – 0.2 microgram/kg/min B. 0.5 - 2microgram/kg/min
C. 0.05 – 0.2 mg/kg/min D. 5 – 10 microgram/kg/min
28. Which one of the following is the drug of choice for the treatment of anaphylaxis?
A. Phenylephrine B. Noradrenaline
C. Adrenaline D. Steroid
29. Which one of the following is the composition of sodalime when dry?
A. Calcium hydroxide (94%), sodium hydroxide (5%), potassium hydroxide (1%); silicates, kieselguhr, and indicator dye (<1%)
B. Calcium hydroxide (5%), sodium hydroxide (94%), potassium hydroxide (1%); silicates, kieselguhr, and indicator dye (<1%)
C. Calcium hydroxide (85%), sodium hydroxide (14%), potassium hydroxide (1%); silicates, kieselguhr, and indicator dye (<1%)
D. Calcium hydroxide (85%), sodium hydroxide (5%), potassium hydroxide (10%); silicates, kieselguhr, and indicator dye (<1%)
30. Adrenaline ampoule contains:
A. 1 in 1000 solution B. 1 in 100 solution
C. 1 in 10 solution D. 1 in 10000 solution
31. 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
32. Regarding Ringer's Lactate, which one of the following is **NOT** correct?
A. It has 131 mmol/L of sodium B. It has 111 mmol/L of chloride.
C. It has 29 mmol/L of lactate D. It has 10 mmol/L of potassium.
33. What is the dose of Neostigmine that is used for reversal of neuromuscular relaxant effect?
A. 0.04 to 0.08 mg/kg body weight
B. 0.4 to 0.8 mg/kg body weight
C. 4 to 8 mg/kg body weight
D. 5 to 10 mg/kg body weight

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(ANAESTHESIOLOGY) HELD ON 08/07/2015

34. 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.
35. Thiopentone is usually prepared for clinical use as a:
- A. 2.5% solution
 - B. 5% solution
 - C. 0.5% solution
 - D. 2% solution
36. Which one of the following is the dose of ketamine used for the induction of general anaesthesia?
- A. 0.5-2 mg/kg IV or 4-6 mg/kg IM
 - B. 0.1-0.5 mg/kg IV or 1-2 mg/kg IM
 - C. 4-6 mg/kg IV or 10-15 mg/kg IM
 - D. 10-15 mg/kg IV or 25-30 mg/kg IM
37. Which one of the following is the dose of Vecuronium used for endotracheal intubation?
- A. 1-2 mg/kg body weight
 - B. 0.1-0.2 mg/kg body weight
 - C. 5-10 mg/kg body weight
 - D. 3-4 mg/kg body weight
38. 1 mg of heparin is approximately equivalent to how many units of heparin?
- A. 1 unit
 - B. 10 units
 - C. 100 units
 - D. 1000 units
39. The endotracheal tube that is most commonly used in current practice has which one of the following types of cuff?
- A. Low pressure, high volume
 - B. Low pressure, low volume
 - C. High pressure, high volume
 - D. High pressure, low volume
40. Sitting position used during neurosurgical procedures can cause all the following EXCEPT:
- A. Venous air embolism and paradoxical air embolism
 - B. Circulatory instability
 - C. Macroglossia
 - D. Increased intracranial pressure

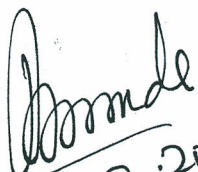

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WRITTEN TEST FOR MFCP OF TECHNICAL ASSISTANT
(ANAESTHESIOLOGY) HELD ON 08/07/2015

41. How should you position a full term pregnant patient coming for caesarean section?
- A. The patient should be positioned with a left lateral tilt, which displaces the gravid uterus from the inferior vena cava and thus prevents aortocaval compression.
 - B. The patient should be positioned with a head down tilt, which displaces the gravid uterus from the inferior vena cava and thus prevents aortocaval compression.
 - C. The patient should be positioned with a head up tilt, which displaces the gravid uterus from the inferior vena cava and thus prevents aortocaval compression.
 - D. The patient should be placed in the lithotomy position, which displaces the gravid uterus from the inferior vena cava and thus prevents aortocaval compression.
42. 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
43. 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.
44. The recommended dose of vasopressin for the treatment of refractory pulseless ventricular tachycardia (VT) or ventricular fibrillation (VF) is:
- A. 10 IU.
 - B. 20 IU.
 - C. 40 IU
 - D. 80 IU.
45. Which of the following is a **DERIVED** parameter in an automated blood gas analyser without co-oxymetry?
- A. pH
 - B. PO₂
 - C. PCO₂
 - D. SaO₂
46. The maximum volume of air that can be exhaled after a maximal inspiration is which one of the following?
- A. Functional residual capacity
 - B. Total lung capacity
 - C. Expiratory reserve volume
 - D. Vital capacity

WRITTEN TEST FOR MFCP OF TECHNICAL ASSISTANT
(ANAESTHESIOLOGY) HELD ON 08/07/2015 (A/B)

47. Identify the **INCORRECT** statement regarding liquid oxygen.
- A. Liquid oxygen is stored at a temperature of -150°C to -170°C and at a pressure of 5 to 10 atmospheres.
 - B. Liquid oxygen is stored in a thermally insulated vessel in which vacuum is used as the insulation.
 - C. A safety valve opens at 1700 kPa allowing the gas to escape when there is build-up of pressure within the vessel.
 - D. A liquid oxygen storage vessel should be housed within the main building.
48. The distance from the center of the magnet (used for MRI) that is usually considered to be safe for ferromagnetic objects is:
- A. Beyond the 2-gauss line
 - B. Beyond the 3-gauss line
 - C. Beyond the 4-gauss line
 - D. Beyond the 5-gauss line
49. An endotracheal tube with an internal diameter (ID) of 2.5 mm equals to which one of the following?
- A. 12 French (Fr)
 - B. 10 French (Fr)
 - C. 8 French (Fr)
 - D. 6 French (Fr)
50. During hemodynamic monitoring, the transducer, catheter, and measurement site are usually aligned at the same level. This is done to ensure that the measurements are not affected by the effect of:
- A. Barometric pressure
 - B. Gravity
 - C. Fluid level
 - D. Transducer sensitivity.


8.7.2015