

पुस्तिका में पृष्ठों की संख्या-32
No. of Pages in Booklet -32
पुस्तिका में प्रश्नों की संख्या-180
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BSAP-22

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प्रश्न पुस्तिका संख्या /
Question Booklet No.

Paper Code : 01

SUBJECT : Anaesthesiology
(Broad Speciality)

समय : 3.00 घण्टे

Time: 3.00 Hours

अधिकतम अंक : 180

Maximum Marks: 180

प्रश्न-पत्र पुस्तिका के पेपर सील/ पॉलिथिन बैग को खोलने पर परीक्षार्थी यह सुनिश्चित कर लें कि प्रश्न पुस्तिका संख्या तथा ओ.एम.आर उत्तर-पत्रक पर अंकित बारकोड समान हैं। इसमें कोई भिन्नता हो तो परीक्षार्थी वीक्षक से दूसरा प्रश्न-पत्र प्राप्त कर लें। ऐसा सुनिश्चित करने की जिम्मेदारी अभ्यर्थी की होगी।

On opening the paper seal /polythene bag of the Question Booklet the candidate should ensure that Question Booklet Number and Barcode of OMR Answer Sheet must be same. If there is any difference, candidate must obtain another Question Booklet from Invigilator. Candidate himself shall be responsible for ensuring this.

परीक्षार्थियों के लिए निर्देश

1. सभी प्रश्नों के उत्तर दीजिए।
2. सभी प्रश्नों के अंक समान हैं।
3. प्रत्येक प्रश्न का केवल एक ही उत्तर दीजिए।
4. एक से अधिक उत्तर देने की दशा में प्रश्न के उत्तर को गलत माना जाएगा।
5. प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं, जिन्हें क्रमशः 1, 2, 3, 4 अंकित किया गया है। अभ्यर्थी को सही उत्तर निर्दिष्ट करते हुए उनमें से केवल एक गोले अथवा बबल को उत्तर-पत्रक पर नीले बॉल प्वाइंट पेन से गहरा करना है।
6. **OMR** उत्तर-पत्रक इस परीक्षा पुस्तिका के अन्दर रखा है। जब आपको परीक्षा पुस्तिका खोलने को कहा जाए, तो उत्तर-पत्रक निकाल कर ध्यान से केवल नीले बॉल प्वाइंट पेन से विवरण भरें।
7. प्रत्येक गलत उत्तर के लिए प्रश्न अंक का 1/3 भाग काटा जायेगा। गलत उत्तर से तात्पर्य अशुद्ध उत्तर अथवा किसी भी प्रश्न के एक से अधिक उत्तर से है। किसी भी प्रश्न से संबंधित गोले या बबल को खाली छोड़ना गलत उत्तर नहीं माना जायेगा।
8. मोबाइल फोन अथवा इलेक्ट्रॉनिक यंत्र का परीक्षा हॉल में प्रयोग पूर्णतया वर्जित है। यदि किसी अभ्यर्थी के पास ऐसी कोई वर्जित सामग्री मिलती है, तो उसके विरुद्ध आयोग द्वारा नियमानुसार कार्यवाही की जायेगी।
9. कृपया अपना रोल नम्बर ओ.एम.आर. पत्रक पर सावधानीपूर्वक सही भरें। गलत अथवा अपूर्ण रोल नम्बर भरने पर 5 अंक कुल प्राप्तांकों में से काटे जा सकते हैं।
10. यदि किसी प्रश्न में किसी प्रकार की कोई मुद्रण या तथ्यात्मक प्रकार की त्रुटि हो, तो प्रश्न के हिन्दी तथा अंग्रेजी रूपान्तरों में से अंग्रेजी रूपान्तर मान्य होगा।

चेतावनी : अगर कोई अभ्यर्थी नकल करते पकड़ा जाता है या उसके पास से कोई अनधिकृत सामग्री पाई जाती है, तो उस अभ्यर्थी के विरुद्ध पुलिस में प्राथमिकी दर्ज कराते हुए विविध नियमों-प्रावधानों के तहत कार्यवाही की जाएगी। साथ ही विभाग ऐसे अभ्यर्थी को भविष्य में होने वाली विभाग की समस्त परीक्षाओं से विवर्जित कर सकता है।

INSTRUCTIONS FOR CANDIDATES

1. Answer all questions.
2. All questions carry equal marks.
3. Only one answer is to be given for each question.
4. If more than one answers are marked, it would be treated as wrong answer.
5. Each question has four alternative responses marked serially as 1, 2, 3, 4. You have to darken only one circle or bubble indicating the correct answer on the Answer Sheet using **BLUE BALL POINT PEN**.
6. The **OMR** Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars carefully with **blue ball point pen** only.
7. **1/3 part of the mark(s) of each question will be deducted for each wrong answer.** A wrong answer means an incorrect answer or more than one answers for any question. Leaving all the relevant circles or bubbles of any question blank will not be considered as wrong answer.
8. Mobile Phone or any other electronic gadget in the examination hall is strictly prohibited. A candidate found with any of such objectionable material with him/her will be strictly dealt as per rules.
9. Please correctly fill your Roll Number in O.M.R. Sheet. **5 Marks** can be deducted for filling wrong or incomplete Roll Number.
10. If there is any sort of ambiguity/mistake either of printing or factual nature, then out of Hindi and English Version of the question, the English Version will be treated as standard.

Warning : If a candidate is found copying or if any unauthorized material is found in his/her possession, F.I.R. would be lodged against him/her in the Police Station and he/she would liable to be prosecuted. Department may also debar him/her permanently from all future examinations.

इस परीक्षा पुस्तिका को तब तक न खोलें जब तक कहा न जाए।

Do not open this Test Booklet until you are asked to do so.

ANAESTHESIOLOGY

1. All of the following are contraindications of Electroconvulsive therapy (ECT), except -
 - (1) Pacemaker
 - (2) Recent stroke
 - (3) Raised intracranial pressure
 - (4) Severe osteoporosis
2. A 58-year-old man with advanced-stage pancreatic cancer is requesting evaluation in the pain clinic for palliation. Which of the following is INCORRECT?
 - (1) The celiac plexus contains afferent and efferent fibers from T5-T12 roots.
 - (2) The plexus is blocked just anterior to the T8 vertebral body.
 - (3) The celiac plexus innervates most of the abdominal viscera.
 - (4) A celiac plexus block perioperatively can decrease body stress and endocrine response to surgery.
3. Following statement about High Flow Nasal Cannula (HFNC) is true -
 - (1) Cannot deliver FiO₂ of 1
 - (2) Can deliver maximum gas flow rates can be up to 40 L/min
 - (3) Does not increase dead space
 - (4) Delivered gases are unhumidified
4. A 39-year-old woman with a history of headaches, hypertension, palpitations and nephrolithiasis is undergoing a parathyroidectomy for parathyroid adenoma. During induction, she develops severe hypertension and tachycardia. The most likely diagnosis for these signs is -
 - (1) Adrenal insufficiency
 - (2) Carcinoid syndrome
 - (3) Thyroid storm
 - (4) Pheochromocytoma
5. Risk factors for aspiration of gastric contents at the time of airway management include all of the following EXCEPT -
 - (1) Emergency surgery
 - (2) Higher ASA classification
 - (3) Obesity
 - (4) Inexperienced anesthetist encountering airway problems

6. The relationship between pressure within a sphere and the tension in the wall is described by -
- (1) Laplace's Law
 - (2) Dalton's Law
 - (3) Boyle's Law
 - (4) Poiseuille's Law
7. The presence of a right-to-left intracardiac shunt results in which of the following?
- (1) Slows induction, especially with very soluble inhalational agents
 - (2) Slows induction, especially with insoluble inhalational agents
 - (3) Speeds induction, especially with very soluble inhalational agents
 - (4) Speeds induction, especially with insoluble inhalational agents
8. Regarding pain relief during labour, which of the following statements is incorrect?
- (1) Blocking T10-L1 dermatomes provides analgesia for first stage.
 - (2) Analgesia for the second stage of labour and delivery requires the block of the S2-4 segments.
 - (3) Prolongation of first stage of labour occurs with epidural analgesia.
 - (4) Dysfunctional labour may be converted to normal labour by epidural analgesia.
9. Which statement about the effects of succinylcholine in healthy patients is correct?
- (1) A phase I block is commonly associated with a fade of Train-of-Four (TOF).
 - (2) A phase I block can be antagonized with acetylcholinesterase inhibitors.
 - (3) A phase II block is defined as TOF ratio of less than 10%.
 - (4) A phase II block is observed at a cumulative succinylcholine dose of more than 7.5 mg/kg.
10. Which of the following may help in mapping of a seizure focus under general anesthesia by enhancing the EEG activity or inducing the seizure?
- (1) Thiopental
 - (2) Ketamine
 - (3) Diazepam
 - (4) Isoflurane
11. A 10-year-old girl with hoarseness presents for laser microsurgery to address laryngeal papillomas. She is otherwise healthy. The surgeon is requesting a General Endotracheal Anesthetic (GETA). The gas mixture least likely to support combustion is -
- (1) Oxygen 35%, air 65%
 - (2) Oxygen 30%, helium 70%
 - (3) Oxygen 20%, nitrous oxide (N₂O) 80%
 - (4) Oxygen 30%, nitrogen (N₂) 70%

12. A patient on the cardiothoracic intensive care unit has an Intra-Aortic Balloon Pump (IABP) in situ. Which of the following apply with regard to the IABP?
- (1) An IABP is contraindicated in aortic stenosis.
 - (2) The balloon inflates during systole.
 - (3) Heliox is used to inflate the balloon.
 - (4) An IABP improves cerebral and coronary perfusion.
13. Which of the following would result in an INCREASE in the production of Compound A from the interaction between soda lime and sevoflurane?
- (1) Low soda lime absorbent temperatures
 - (2) Low alveolar partial pressure of sevoflurane
 - (3) Soda lime desiccation
 - (4) High fresh gas flows
14. A 30-year-old man is in the preoperative holding area with a heart rate of 70 beats per minute and an estimated stroke volume of 70 mL. He is breathing 10 times per minute with a tidal volume of 500 mL and an estimated dead space of 100 mL. What is this patient's ventilation/perfusion ratio?
- (1) 0.5
 - (2) 0.8
 - (3) 1.0
 - (4) 1.2
15. During liver transplantation on a 38-year-old woman with sclerosing cholangitis, the thromboelastograph (TEG) tracing showed fibrinolysis. The parameter of the TEG measuring clot strength is -
- (1) R value
 - (2) Maximum Amplitude (MA)
 - (3) Alpha angle
 - (4) K value
16. The variable not used to calculate an MELD (Model for End-stage Liver Disease) score to prioritize patients for liver transplantation is -
- (1) Creatinine
 - (2) INR (International Normalized Ratio)
 - (3) Bilirubin
 - (4) Albumin

17. Which of the following about MeSH is incorrect?
- (1) MeSH thesaurus is controlled vocabulary produced by the National Library of Medicine.
 - (2) It consists of sets of terms naming descriptors in a hierarchical structure that permits searching at various levels of specificity.
 - (3) It is used for indexing and searching of biomedical and health-related information.
 - (4) MeSH is used for EMBASE database.
18. Randomization of study subjects -
- (1) Increases the power of a study
 - (2) Introduces bias
 - (3) Balances confounders
 - (4) Reduces the number of subjects necessary to make a result significant
19. Which of the following provide the lowest level of evidence?
- (1) Case series
 - (2) Small RCT with unclear results
 - (3) Cohort studies
 - (4) Case control studies
20. Which of the following statements is TRUE regarding cervical plexus block?
- (1) Phrenic nerve blockade is a rare complication of deep cervical plexus block.
 - (2) The superficial cervical plexus innervates the sternocleidomastoid muscle.
 - (3) A deep cervical plexus block is performed at the C4, C5 and C6 levels.
 - (4) A superficial cervical plexus block is performed at the anteromedial aspect of the sternocleidomastoid muscle.
21. Lidocaine and epinephrine are commonly used together when testing epidural anesthesia because -
- (1) Lidocaine injection (3 mL of 1.5%) intravascularly will induce local anesthetic toxicity such as perioral numbness
 - (2) Intrathecal injection of epinephrine will result in a high spinal
 - (3) Intrathecal injection of lidocaine can cause a low-level spinal anesthesia with some degree of motor block
 - (4) Intravascular injection of epinephrine (typically 15 µg/3 mL) can cause hypertension more than tachycardia.

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22. Vein Pattern Locating Technology for Cannulation (Vein finder) uses which light spectrum?
- (1) Ultra violet (2) Visible
(3) Infrared (4) None of the above
23. Which of the following robots has been used for endotracheal intubation in humans?
- (1) Da Vinci (2) Kepler
(3) Xenex (4) PARO
24. Which of the following is not true about Xenon?
- (1) Has lowest blood gas partition coefficient of all inhaled anaesthetic agents
(2) Depresses myocardium
(3) Requires expensive delivery and scavenging system
(4) Safe in Malignant Hyperthermia
25. Which of the following is/are modalities to monitor intraoperative pain?
- (1) Analgesia Nociception Index (ANI) (2) Surgical Pleth Index (SPI)
(3) Pupillometry (4) All of the above
26. An otherwise healthy 61-year-old man receives a spinal anesthetic for Transurethral Resection of the Prostate (TURP). Forty-five minutes after the start of the procedure, he suddenly develops nausea, diaphoresis and sharp pain in the left shoulder. Which of the following is the most likely cause?
- (1) Angina pectoris (2) Bladder perforation
(3) Hyponatremia (4) Inadequate spinal sensory level
27. The potential advantage of the LMA-ProSeal over classic LMA is that the Pro-Seal LMA provides -
- (1) Better seal at the epiglottis, thereby allowing for positive-pressure ventilation to be employed.
(2) Conduit to permit gastric fluids to bypass the glottis.
(3) Conduit to facilitate blind or fiberoptic intubation.
(4) More flexible shaft that is resistant to kinking and thereby facilitates its use during oral, dental, or head and neck surgery.

28. Which of the following classes of drugs is most likely to be responsible for an anaphylactic reaction during general anesthesia?
- (1) Neuromuscular-blocking drugs (2) Opioids
(3) Antibiotics (4) Radio contrast dyes
29. The National Institute for Occupational Safety and Health (NIOSH) recommends limiting operating room concentration of nitrous oxide to.....ppm.
- (1) 10 (2) 25
(3) 50 (4) 100
30. A 4-year-old child weighing 16 kg is scheduled for hernia repair under general anesthesia. Assuming he was NPO for 8 hours, his total fluid deficit will be about.....(mL).
- (1) 380 (2) 420
(3) 460 (4) 500
31. A 1-month-old boy is brought to the emergency room with projectile nonbilious vomiting. An olive-shaped mass is palpated in the epigastrium and the diagnosis of pyloric stenosis is confirmed with ultrasonography. Which of the following electrolyte disturbances would be least likely?
- (1) Hyperchloremia (2) Metabolic alkalosis
(3) Hyponatremia (4) Hypokalemia
32. A 2-year-old child undergoing myringotomy develops laryngospasm in the operating room. The patient is breathing spontaneously with face mask at an FiO₂ of 0.6. Next step in the management would be -
- (1) Increasing FiO₂ to 1.0 (2) Jaw thrust
(3) Endotracheal intubation (4) Intramuscular succinylcholine
33. For adults with septic shock, Surviving Sepsis guidelines 2021 recommend using.....as the first-line agent over other vasopressors.
- (1) Vasopressin (2) Norepinephrine
(3) Epinephrine (4) Selepressin
34. A patient can be diagnosed with Acute Respiratory Distress Syndrome (ARDS) if he or she has an acute onset of illness, bilateral infiltrates on chest X-ray, lack of evidence of left heart failure and a PaO₂/ FiO₂ (P/F) ratio of less than or equal to -
- (1) 500 mm Hg (2) 400 mm Hg
(3) 350 mm Hg (4) 200 mm Hg

35. The physiological rationale behind prone positioning in typical ARDS is -
- (1) alter regional distribution of pulmonary blood flow
 - (2) preventing alveolar de-recruitment
 - (3) generate more homogenous lung aeration and subsequent reduction in shunting
 - (4) None of the above
36. In Pressure Support Ventilation (PSV), inspiration ends (and expiration begins) when -
- (1) A preset tidal volume has been achieved
 - (2) A preset airway pressure has been achieved
 - (3) Flow decreases to a preset level
 - (4) A preset amount of time has passed
37. Airway management in Klippel-Feil syndrome is most likely to be challenging because of -
- (1) Micrognathia
 - (2) Macroglossia
 - (3) Subglottic stenosis
 - (4) Cervical spine fusion
38. The Mallampati classification focuses on the visibility of oropharyngeal structures when the patient is examined in which of the following positions?
- (1) Supine, mouth fully open, tongue protruded, with phonation
 - (2) Sitting, mouth opened, tongue in neutral position, without phonation
 - (3) Sitting, mouth fully opened, tongue protruded, without phonation
 - (4) Sitting, mouth fully opened, tongue protruded, with phonation
39. A 72-year-old patient with a history of hypertension and angina at moderate activity is to undergo a laparoscopic cholecystectomy. Due to decreased effort tolerance and a significant blockade of left anterior descending coronary artery on stress thallium, a pre-procedure coronary intervention is planned. Which of the following procedures performed prior to the elective surgery is least likely to delay the laparoscopic surgery?
- (1) Coronary Artery Bypass Graft (CABG)
 - (2) Percutaneous coronary stenting-bare-metallic stent
 - (3) Percutaneous coronary stenting-drug-eluting stent
 - (4) Percutaneous balloon dilatation

40. In preoperative assessment of patients, physical activity is graded in terms of Metabolic Equivalents (METs). The value that corresponds to oxygen consumption of 1 MET in an adult is -
- (1) 2 mL/kg/min
 - (2) 7 mL/kg/min
 - (3) 3.5 mL/kg/min
 - (4) 5.5 mL/kg/min
41. For emergent surgery, anticoagulation produced by warfarin can be reversed by using -
- (1) Fresh Frozen Plasma (FFP)
 - (2) Injectable vitamin K
 - (3) Prothrombin complex concentrate
 - (4) Factor VIII concentrate
42. After providing shock with AED, you should -
- (1) Start CPR beginning with chest compressions
 - (2) Check pulse
 - (3) Give rescue breath
 - (4) Let AED analyse the rhythm
43. The correct respiratory physiologic change associated with pregnancy is -
- (1) Increase in arterial pH
 - (2) Increase in HCO_3
 - (3) Increase in PaCO_2
 - (4) Increase in tidal volume
44. Which of the following is not associated with oxytocin administration?
- (1) Myocardial ischemia
 - (2) Respiratory depression
 - (3) Hypotension
 - (4) Tachycardia
45. A 20-year-old man who was been in a motor vehicle collision enters the operating room for open reduction and internal fixation of a compound tibia fracture. He ate a full meal approximately 3 hours ago. A cervical collar is in place with midline cervical tenderness on examination and he has a LeFort III fracture. His past surgical history includes a laparoscopic appendectomy at age 17, after which he was told he was an easy intubation. According to the American Society of Anesthesiology (ASA) recommendations, it is advisable to manage his airway via -
- (1) Awake fiberoptic intubation with patient's assistance in maintaining neck extension
 - (2) Rapid sequence intubation with in-line stabilization
 - (3) Laryngeal mask airway for duration of case
 - (4) Blind nasal intubation after induction of general anesthesia

46. A 23-year-old man is admitted to the intensive care unit following a motor vehicle collision and after initial evaluation in the emergency department. On exam he opens his eyes to questioning and speaks in full sentences but is disoriented. He does not follow commands and upon sternal rub he reaches to grab the examiner's hand. What is his Glasgow Coma Scale score?
- (1) 9 (2) 10
(3) 11 (4) 12
47. Best measure to reduce cerebral oxygen consumption includes -
- (1) Administration of barbiturates (2) Hyperventilation
(3) Administration of opioids (4) Institution of hypothermia
48. To help encourage universal quality and safety practices, the ASA has adopted and mandates the use of all the following monitors during general anesthesia, except -
- (1) An oxygen analyzer
(2) Capnography
(3) Continuous visual display of an ECG
(4) A peripheral nerve stimulator
49. During the course of a complicated cardiac case, the surgeon informs you that he is worried about damage to the right coronary artery in a patient with a right-dominant coronary system. During reperfusion, you are looking for signs of ischemia and are most interested in leads -
- (1) V1-V3 (2) V4-V6
(3) II, III and AvF (4) I and AvL
50. You are called to evaluate a 50-year-old patient for brain death. All the following are criteria for brain death, except -
- (1) Apnea for 10 minutes (2) Absence of corneal reflex
(3) Presence of spinal reflexes (4) Decerebrate posturing
51. All of the following can be used to assist in reducing the amount of perioperative surgical blood loss in an orthopedic procedures, except -
- (1) Hemodilution (2) Controlled hypotension
(3) Tranexamic acid (4) Aprotinin
52. A healthy pregnant patient in labor has which of the following ASA classifications?
- (1) I (2) II
(3) III (4) IV

58. A bronchial blocker is useful in all of the following clinical situations, except -
- (1) Patient to be left intubated post operatively
 - (2) Anatomical abnormality precluding the placement of a Double-Lumen Tube (DLT)
 - (3) Tamponading bronchial bleeding in adult patients
 - (4) To attain better collapse of the nondependent lung
59. Which of the following physical exam maneuvers is used to assess the adequacy of the collateral circulation of the hand?
- (1) Phalen's test
 - (2) Tinel's test
 - (3) Allen's test
 - (4) Watson's test
60. For which of the following conditions is the administration of antibiotics before a dental procedure for endocarditis prevention NOT recommended?
- (1) Mitral valve prolapse
 - (2) Presence of prosthetic heart valves
 - (3) Status post cardiac transplantation with aortic stenosis
 - (4) Two months after placement of an Atrial Septal Defect closure device
61. The most accurate statement regarding absorption of topically administered ophthalmic drugs is that they are absorbed -
- (1) Slower than subcutaneous absorption
 - (2) Faster than intravenous absorption
 - (3) Similar to oral absorption
 - (4) Slower than intravenous absorption
62. Drug therapy included in Adult Cardiac Arrest Algorithm (ACC/AHA Guidelines 2020) include all except -
- (1) IV Epinephrine
 - (2) IV Atropine
 - (3) IV Lidocaine
 - (4) IV Amiodarone
63. The effectiveness of CPR can be estimated by -
- (1) Arterial diastolic blood pressure
 - (2) Quantitative waveform capnography
 - (3) Central venous oxygen saturation
 - (4) All of the above

64. Which of the following statement is correct?
- (1) Liver derives its blood supply 25% from hepatic artery and 75% from portal vein, but oxygen supply to the liver is 50% from hepatic artery and 50% from portal vein.
 - (2) Liver derives its blood supply 75% from hepatic artery and 25% from portal vein, but oxygen supply to the liver is 75% from hepatic artery and 25% from portal vein.
 - (3) Liver derives its blood supply 25% from hepatic artery and 75% from portal vein, but oxygen supply to the liver is 75% from hepatic artery and 25% from portal vein.
 - (4) Liver derives its blood supply 75% from hepatic artery and 25% from portal vein, but oxygen supply to the liver is 25% from hepatic artery and 75% from portal vein.
65. The epidural space is located between -
- (1) Dura and arachnoid membrane
 - (2) Two layers of dura membrane
 - (3) Ligamentum flavum and dura membrane
 - (4) Arachnoid and pia membrane
66. Which one of the following sentence is incorrect about Laryngeal nerve supply?
- (1) The two recurrent laryngeal nerves provide motor supply to all the intrinsic muscles of the larynx except the cricothyroid and inferior pharyngeal constrictor muscles.
 - (2) Cricothyroid is supplied by internal branch of superior Laryngeal nerve.
 - (3) Sensory innervations of the larynx up to the vocal chords by the internal Laryngeal nerve.
 - (4) Sensory supply below the vocal chords and to the upper trachea is by recurrent laryngeal.
67. Which of the following statements is true regarding the use of magnesium sulphate for seizure control in pregnant patients?
- (1) Goal is to maintain serum concentration of 4.5-5.5 mEq/L and respiratory paralysis occurs at 7-10 mEq/L.
 - (2) Goal is to maintain serum concentration of 3.5 mEq/L and respiratory paralysis occurs at 6-7mEq/L.
 - (3) Goal is to maintain serum concentration of 2.0-3.5 mEq/L and respiratory paralysis occurs at 10-13mEq/L.
 - (4) Goal is to maintain serum concentration of 5.5-6.5 mEq/L and respiratory paralysis occurs at ≥ 15 mEq/L.

68. What is Gorlin formula related to -
- (1) Flow of anesthesia gases across the orifice in flowmeter assembly
 - (2) Transfer of Inhalational agents from alveoli to brain as per partial pressure of the agent
 - (3) Increase in wall tension of left ventricle because of intracavitary systolic pressure generated to overcome aortic stenosis
 - (4) Pressure gradient between left Atrium and left Ventricle increases by the square of the increase in flow rate across the mitral valve
69. Which of the following factors will increase the MAC of volatile inhalational agents?
- (1) Pregnancy
 - (2) Alpha 2 agonists
 - (3) Hyperthermia
 - (4) Increasing age
70. The complete awakening without residual CNS effects is the characteristic of which of the following intravenous induction agents?
- (1) Propofol
 - (2) Thiopentone
 - (3) Etomidate
 - (4) Ketamine
71. Which of the following cardiovascular effects will be seen on giving Injection Midazolam in a dose of 0.2 mg/kg for induction?
- (1) Decrease in cardiac output with decrease in systemic vascular resistance
 - (2) Cardiac output is not altered but decrease in systemic vascular resistance
 - (3) No change in systemic vascular resistance
 - (4) Midazolam prevents sympathetic stimulation responses evoked by intubation
72. Dexmedetomidine has α_2 versus α_1 agonist receptor selectively in the ratio of -
- (1) 1620:1
 - (2) 220:1
 - (3) 1:1620
 - (4) 1:220
73. Which of the following drugs produces chest wall rigidity and biliary spasm as its side effects?
- (1) Midazolam
 - (2) Dexmedetomidine
 - (3) Fentanyl
 - (4) Buprenorphine
74. All of the following are effects of general anaesthesia on lung function, except -
- (1) A fall in FRC
 - (2) Increase in lung compliance
 - (3) Increased physiologic dead space
 - (4) More uneven distribution of ventilation

75. After CABG or after Percutaneous coronary intervention (stent placement) in a patient, elective surgery should only be taken after -
Which one of the following sentences is incorrect?
- (1) At least 30 days and preferably 90 days after bare metal stents.
 - (2) At least 6 months, preferably 1 year for drug-eluting stents.
 - (3) At least 6 weeks and preferably 12 weeks for CABG.
 - (4) At least 6 weeks and preferably 12 weeks for drug-eluting stents.
76. Which of the following manifestations is not a feature of Diabetic Autonomic Neuropathy?
- (1) Resting Tachycardia
 - (2) Absent beat to beat variation in heart rate with deep breathing
 - (3) Orthostatic Hypotension
 - (4) Resting Bradycardia
77. The last muscle to recover from neuromuscular blockade is -
- (1) Diaphragm muscles
 - (2) Intercostal muscles
 - (3) Orbicularis muscles
 - (4) Oropharyngeal muscles
78. What should be the difference between exhaled tidal volume before and after cuff deflation (ventilating the patients on volume control mode) to rule out airway edema before extubation in patients undergoing prolonged procedures?
- (1) more than 15.5% is the cut-off value for extubation of trachea
 - (2) more than 25% is the cut-off value for extubation of trachea
 - (3) less than 1% is the cut-off value for extubation of trachea
 - (4) less than 5% is the cut-off value for extubation of trachea
79. In Post Anaesthesia Care Unit (PACU), after 5 hrs, a patient operated for whipples develops non-cardiogenic pulmonary edema, fever, systemic hypotension, leukopenia. The probable diagnosis is -
- (1) Sepsis
 - (2) Post-obstructive pulmonary edema
 - (3) TRALI
 - (4) MI (myocardial ischemia)
80. Deep Hypothermic Circulatory Arrest involves reducing the patients core temperature to -
- (1) Less than 15°C
 - (2) 15°C to 22°C
 - (3) 22°C to 25°C
 - (4) 25°C to 28°C

81. Which one of the following statement about Trans-sphenoidal hypophysectomy is not correct?
- (1) Diabetes insipidus may occur after the surgery.
 - (2) Postoperatively, there may be bleeding into the airway.
 - (3) It minimizes direct neuronal damage in comparison to transcranial approach.
 - (4) Trans-sphenoidal hypophysectomy is a painless procedure.
82. What is euthyroid sick syndrome?
- (1) SA node abnormality in a patient of hypothyroidism
 - (2) Patient of hyperthyroidism on treatment suddenly becoming critical
 - (3) Occurrence of abnormal results of thyroid function tests in critically ill patients with significant non-thyroid illness
 - (4) T3 and T4 are low with high TSH level of more than 10 milliunits/L
83. A patient of Osteoarthritis suffering from Rt shoulder arthritis has come for forearm surgery of the same side. Which of the following approach for Brachial Plexus block is most appropriate?
- (1) Supraclavicular Block
 - (2) Interscalene
 - (3) Infraclavicular
 - (4) Axillary
84. The hypotension developed after cement application is due to -
- (1) Allergic reaction to cement.
 - (2) Direct vasodilation due to cement.
 - (3) Increased bleeding due to reaction from cement causing increased permeability.
 - (4) Cement increases the intra medullary pressure, thereby forcing marrow contents into blood & causing impaired left ventricular filling.
85. Which of the following is the absolute contraindication to Day Care Surgery?
- (1) Age above 60 years
 - (2) Inability to identify a responsible caregiver
 - (3) Morbidity obese patient
 - (4) Patients taking anticoagulants
86. As per Modified Aldrete recovery score, patients are fit for discharge from phase-I recovery unit if the total score is -
- (1) Equal to or greater than 4
 - (2) Equal to or greater than 7
 - (3) Equal to or greater than 8
 - (4) Equal to 10

87. Which of the following is the vasopressor of choice to treat and manage hypotension caused by neuraxial anaesthesia in pregnancy because of its advantage of having less transfer to foetus and causing less foetal acidosis beside treating hypotension -
- (1) Ephedrine (2) Phenylephrine
(3) Dopamine (4) Mephentermine
88. The minimum volume of gastric fluid of pH 2.5 sufficient to cause widespread lung damage (Mendelson syndrome) is -
- (1) 40ml (2) 25ml
(3) 60ml (4) 100ml
89. During the first stage of labour, an epidural block for labour analgesia should be limited to -
- (1) T10 to L1 (2) T10 to S1
(3) L5 to S1 (4) T10 to S1,2,3,4
90. During liver transplant, neo-hepatic phase begins with -
- (1) Reperfusion via hepatic vein
(2) Clamping of vascular structures, supra-hepatic and infra-hepatic vena cava, portal vein and hepatic artery
(3) Hepatectomy of the diseased liver
(4) Reperfusion via portal vein
91. When a ventilator delivers a mechanical breath in response to patient's effort it is called -
- (1) Time triggered (2) Pressure or Flow triggered
(3) Volume triggered (4) Intermittent breath
92. Anaesthesiologist may be held guilty for vicarious liability if -
- (1) He/She did not write proper notes
(2) The anaesthesiologist did not have necessary skill
(3) He/She did not adhere to standard of care
(4) He/She is considered to be supervising and liable for the actions of anyone acting upon his/her instructions eg. Ward nurse
93. What is AMPLE mnemonic related to?
- (1) Assessing Airway
(2) Pre-anaesthetic assessment in case of casualties due to disaster
(3) Evaluation of a liver failure patient
(4) CNS assessment

94. Which of the following cardiovascular reflexes does NOT cause a decrease in heart rate?
- (1) Carotid sinus massage (2) Cushing's reflex
(3) Oculocardiac reflex (4) Valsalva maneuver
95. Which of the following is the best predictor of a difficult intubation in a morbidly obese patient?
- (1) Pretracheal tissue volume (2) Body mass index
(3) Mallampati score (4) Thyromental distance
96. Normal blood glucose level in a neonate is..... (mg/dL).
- (1) 20 to 40 (2) 40 to 60
(3) 60 to 70 (4) 50 to 80
97. Which of the following is not true for HELLP syndrome?
- (1) Presents at early gestational ages (2) More common in first pregnancy
(3) Preeclampsia is a predisposing factor (4) Complete recovery usually occurs
98. Post-anaesthetic shivering can be treated with all of the following, except -
- (1) Naloxone (2) Physostigmine
(3) Magnesium sulfate (4) Dexmedetomidine
99. The MAC of a volatile anaesthetic agent is greatest when administered to which of the following groups of healthy patients?
- (1) Neonates (2) Infants
(3) Adolescents (4) Parturients
100. Correct relationships among arterial (Pa), venous (Pv) and alveolar pressures (PA) in zone-1 are -
- (1) $PA > Pa > Pv$ (2) $Pa > PA > Pv$
(3) $Pa > Pv > PA$ (4) None of the above
101. How much time constant is required for complete exhalation of FRC?
- (1) $1 \times$ time constant (2) $2 \times$ time constant
(3) $3 \times$ time constant (4) $4 \times$ time constant
102. Which of the following terms refers to myocardial relaxation or diastole?
- (1) Inotropy (2) Dromotropy
(3) Bathmotropy (4) Lusitropy

103. Driving pressure in mechanical ventilation is defined as -
- (1) Peak airway pressure minus plateau pressure.
 - (2) Peak airway pressure minus PEEP.
 - (3) Plateau pressure minus PEEP.
 - (4) Mean airway pressure minus PEEP.
104. Which of the following decreases the incidence of VAP?
- (1) Daily change of circuits
 - (2) HME filters
 - (3) Frequent suctioning of endotracheal tube
 - (4) Subglottic suction
105. In relation to Extracorporeal Membrane Oxygenation (ECMO) select false statement -
- (1) Venovenous ECMO (VV ECMO) is preferred to VA ECMO in the treatment of respiratory failure as normal pulmonary blood flow is maintained.
 - (2) An ECMO circuit consists of a drainage cannula, pump, oxygenator and an arterial-return cannula.
 - (3) Haematology support is vital for the running of an ECMO service.
 - (4) The well-publicised CESAR trial showed no benefit of ECMO in adults.
106. Preferred route for Morphine administration in cancer patients for pain relief is -
- | | |
|-----------------|-------------------|
| (1) Intravenous | (2) Subcutaneous |
| (3) Oral | (4) Intramuscular |
107. All of the following are principles of palliative care, except -
- | | |
|-------------------------|---|
| (1) Relief of symptoms. | (2) Improve quality of life |
| (3) Delay the death | (4) Involvement of caregivers in patient care |
108. A- δ fibers -
- (1) Are unmyelinated
 - (2) Are low-threshold mechanoreceptors
 - (3) Increase their firing as the intensity of the stimulus increases
 - (4) Do not respond to noxious stimuli
109. Pulse oximeter comprises of light source at frequencies -
- | | |
|-----------------------|-----------------------|
| (1) 600 nm and 910 nm | (2) 620 nm and 920 nm |
| (3) 640 nm and 930 nm | (4) 660 nm and 940 nm |

110. Diagnostic criteria for RVH all except -
- (1) Right axis deviation
 - (2) Dominant R wave in V1 (> 7mm tall)
 - (3) Dominant S wave in V5 or V6 (> 7mm deep)
 - (4) R/S ratio > 1 in V5 or V6
111. Most sensitive non-invasive monitor to detect venous air embolism is -
- (1) Transesophageal echocardiography
 - (2) ETCO₂
 - (3) End tidal nitrous
 - (4) Precordial Doppler
112. Normal lung ultrasound is depicted by all except -
- (1) Presence of A-line
 - (2) Presence of lung sliding
 - (3) Presence of Seashore sign
 - (4) Presence of lung point
113. Pneumothorax can be diagnosed on ultrasound by -
- (1) Presence of Sliding sign
 - (2) Barcode sign
 - (3) Seashore sign
 - (4) Plankton sign
114. In your hospital you find that the rate of infection at the site of injection following the neuraxial block is higher. Which of the following helps in improving the standards?
- (1) Performing a Randomised Controlled Trial (RCT)
 - (2) Performing a Quality Improvement Project (Audit)
 - (3) Searching for the literature on infection and its management
 - (4) Administration of prophylactic antibiotics
115. Alpha error occurs when -
- (1) Null hypothesis is rejected when it is actually true
 - (2) Null hypothesis is accepted when it is actually true
 - (3) Tells about the probability of accepting the null hypothesis when it is false
 - (4) Tells about the probability of rejecting the null hypothesis when it is true
116. A 72-years-old male with known case of sever dementia is brought to the hospital with the diagnosis of ruptured Abdominal Aortic Aneurysm (AAA) with hemodynamic instability. Regarding the consent, which of the following is true?
- (1) Call patient's wife and get consent to proceed with surgery
 - (2) No need of any consent as the surgery is in patient's best interest
 - (3) Call the Patient's lawyer to find out who has the power of attorney
 - (4) Approach your hospital medico-legal advisor

117. Pregnancy increases aspiration risk due to following reasons, except -
- (1) Lowered tone of lower oesophageal sphincter
 - (2) Gastric emptying is slowed during pregnancy
 - (3) Oesophageal peristalsis is slowed during pregnancy
 - (4) Intragastric pressure is increased
118. Which of the following is MOST likely to increase the patient's risk for needing postoperative ventilatory support in myasthenia Gravis?
- (1) Pyridostigmine dose of 180 mg/day
 - (2) Age > 30 years
 - (3) Disease duration of 2 years
 - (4) Vital capacity of 2.5 L
119. The following are the monitors for cerebral oxygenation, except -
- (1) Jugular venous oxygen saturation
 - (2) Near Infrared Spectroscopy
 - (3) Transcranial Doppler
 - (4) Brain tissue oxygen tension
120. All are true about Local anaesthetics, except -
- (1) Local anaesthetics are weak bases
 - (2) Acts on calcium channels
 - (3) Addition of sodium bicarbonate to local anaesthetic causes rapid onset as more drug exists in unionised diffusible form
 - (4) Addition of adrenaline (vasoconstrictor) to local anaesthetic prolongs the duration of action
121. Bohr effect refers to shift in hemoglobin-O₂ dissociation curve caused by changes in -
- (1) CO₂ or pH
 - (2) Temperature
 - (3) 2,3 DPG
 - (4) Oxygen
122. Spinal cord terminates distally at which level?
- (1) L1 in infants and L3 in adults
 - (2) L2 in infants and L3 in adults
 - (3) L3 in infants and L1 in adults
 - (4) L2 in infants and L2 in adults
123. Intercrestal line (line drawn between two iliac crests), traditionally used to guide spinal needle insertion during spinal anesthesia corresponds to which interspace?
- (1) T12-L1 interspace
 - (2) L1-L2 interspace
 - (3) L4-L5 interspace
 - (4) S1-S2 interspace

124. True statement regarding Nitrous oxide -
- (1) Decreases the speed of induction of other inhalation agents.
 - (2) Does not have analgesic properties.
 - (3) Expands air filled spaces.
 - (4) Prevents post-operative nausea and vomiting.
125. Which non depolarising muscle relaxant below has a rapid onset of action?
- (1) Succinylcholine
 - (2) Vecuronium
 - (3) Rocuronium
 - (4) Pancuronium
126. Dose of paracetamol for preterm neonate -
- (1) 20 mg/kg
 - (2) 15 mg/kg
 - (3) 10 mg/kg
 - (4) 7.5 mg/kg
127. Normal resting myocardial O₂ consumption is -
- (1) 2.0 mL/100 g/min
 - (2) 3.5 mL/100 g/min
 - (3) 10 mL/100 g/min
 - (4) 15 mL/100 g/min
128. Fondaparinux activity can be measured by -
- (1) PT/INR
 - (2) APPT/ACT
 - (3) Bleeding time
 - (4) Anti-Xa activity
129. Which statement about half-life of Intravenous Unfractionated Heparin is true (UFH)?
- (1) Dose dependent
 - (2) 1 hour
 - (3) 2 hours
 - (4) 4 hours
130. Choose the odd one out -
- (1) CPDA is anticoagulant used for blood storage
 - (2) Massive blood transfusion leads to hypothermia
 - (3) Oxygen dissociation curve shifts to right after transfusion
 - (4) Platelets are stored at 1°C- 6°C for 5 days
131. MAC (minimum alveolar concentration) is affected by all, except -
- (1) Age
 - (2) Pregnancy
 - (3) Acute alcohol intake
 - (4) Gender

132. Which of the following drugs are administered by Total Body weight?
- (1) Succinylcholine (2) Rocuronium
(3) Atracurium (4) Clonidine
133. False statement regarding Supraglottic airway devices -
- (1) Blindly inserted into the pharynx to provide a patent conduit for ventilation
(2) Less invasive than tracheal intubation
(3) Protects from gastric regurgitation and aspiration similar to endotracheal intubation
(4) Used as a rescue airway device in failed tracheal intubation
134. All are component of Revised Cardiac Risk Index (RCRI), except -
- (1) History of IHD
(2) History of CVA
(3) History of Diabetes requiring preoperative insulin use
(4) Chronic kidney disease
135. All of the following are risk factors for post-operative nausea and vomiting, except -
- (1) Smoking (2) Female gender
(3) History of motion sickness (4) Use of postoperative opioids
136. Predictors of post-operative cognitive dysfunction include all the following, except -
- (1) Male sex
(2) Lower educational group
(3) Previous stroke without residual impairment
(4) Higher age
137. Cerebral hyperperfusion syndrome is seen commonly following -
- (1) Status epilepticus (2) ECT
(3) Carotid endarterectomy (4) Stroke
138. Laboratory findings in primary hypothyroidism are -
- (1) Low TSH, elevated T3, elevated T4 (2) Low TSH, low T3, low T4
(3) Normal TSH, low T3, low T4 (4) Elevated TSH, low T3, low T4

139. Following are true in Congenital Diaphragmatic Hernia (CDH), except -
- (1) 75% are left sided
 - (2) Bochdalek's hernia is most common type
 - (3) Cyanosis, dyspnea and apparent dextrocardia are classical triad of CDH
 - (4) It is a surgical emergency
140. Following are true in Tetralogy of Fallot, except -
- (1) Most common cyanotic congenital heart defect
 - (2) Infundibular spasm is common cause of Tet Spells
 - (3) Crying, defecation, feeding, fever and awakening all are the precipitating events for Tet Spells
 - (4) Adrenergic agonists are drug of choice for Tet Spells
141. Trans-mitral mean pressure gradient of Severe MS -
- | | |
|---------------|----------------------|
| (1) <5 mm Hg | (2) 5-10 mm Hg |
| (3) >10 mm Hg | (4) Any of the above |
142. Activated Clotting Time (ACT) is prolonged by all, except -
- | | |
|----------------------|-------------------------|
| (1) Hypothermia | (2) Haemodilution |
| (3) Thrombocytopenia | (4) Platelet activation |
143. In one-lung ventilation, hypoxic vasoconstriction is enhanced by -
- | | |
|--------------------------|------------------------------|
| (1) Volatile agents | (2) Intravenous anaesthetics |
| (3) Sodium nitroprusside | (4) Almitrine |
144. While on cardiopulmonary bypass during elective coronary artery revascularization, the patient is noted to have bulging sclerae. Mean arterial pressure is 50 mm Hg, temperature is 28°C and there is no ECG activity. The most appropriate action to take at this time is to -
- (1) Administer mannitol, 50 gm IV
 - (2) Administer furosemide, 20 mg IV
 - (3) Check the position of the aortic cannula
 - (4) Check the position of the venous return cannula

145. Skull blocks for awake craniotomy anesthetize all of the following nerves, except -
- (1) Auriculotemporal nerve
 - (2) C4 cervical nerve root
 - (3) Supratrochlear nerve
 - (4) Branches of the ophthalmic division of the trigeminal nerve
146. Cerebral perfusion pressure is calculated as -
- (1) $CPP = SBP - ICP$
 - (2) $CPP = MAP - ICP$
 - (3) $CPP = MAP - CVP$
 - (4) $CPP = DBP - ICP$
147. Which of the interventions to be carried out in the emergency department is most likely to reduce intracranial pressure rapidly in traumatic brain injury?
- (1) Intubate and hyperventilate
 - (2) Intravenous administration of corticosteroid
 - (3) IV administration of nitroprusside
 - (4) IV administration of furosemide
148. During laparoscopic cholecystectomy surgery, the saturation and $ETCO_2$ drops while the airway pressure increases. The likely diagnosis is -
- (1) Capnothorax
 - (2) Pneumothorax
 - (3) Subcutaneous emphysema
 - (4) CO_2 embolism
149. High intra-abdominal pressure during robotic surgery is likely to result in all except for -
- (1) Increase in production of antidiuretic hormone and activation the renin-angiotensin-aldosterone system
 - (2) Increase in pulmonary vascular resistance
 - (3) Increase in ventilation/perfusion mismatch
 - (4) Increase in cardiac preload
150. Pin Index for oxygen cylinder is -
- (1) 1, 5
 - (2) 2, 5
 - (3) 3, 5
 - (4) 2, 6

151. All of the following have minimal effect on the latency and amplitude of the sensory and motor evoked potential waveforms, except -
- | | |
|------------------|---------------------|
| (1) Remifentanyl | (2) Dexmedetomidine |
| (3) Propofol | (4) Sevoflurane |
152. The type of cerebral edema seen in Traumatic brain injury is -
- | | |
|------------------------|---------------------|
| (1) Vasogenic edema | (2) Cytotoxic edema |
| (3) Interstitial edema | (4) None of these |
153. Which of the following is not a component of Cardiopulmonary Exercise Testing (CPET)?
- | | |
|--------------------------------|-------------------------|
| (1) O ₂ consumption | (2) Aerobic Threshold |
| (3) CO ₂ production | (4) Anaerobic Threshold |
154. Which of the following can happen with the use of bone cement?
- | | |
|------------------|-----------------------|
| (1) Hyperoxia | (2) Tachydysrhythmias |
| (3) Hypertension | (4) All of the above |
155. What is the composition of EMLA cream?
- | | |
|--------------------------------------|--------------------------------------|
| (1) 2.5% Lidocaine + 2.5% Prilocaine | (2) 5% Lidocaine + 5% Prilocaine |
| (3) 7.5% Lidocaine + 5% Prilocaine | (4) 7.5% Lidocaine + 7.5% Prilocaine |
156. Which of the following is considered the "gold standard" when using clinical assessment to evaluate for residual neuromuscular blockade?
- | |
|--|
| (1) Tongue protrusion |
| (2) Ability to lift the head off the bed for 5 seconds |
| (3) Normal Tidal volume |
| (4) Sustained eye opening |
157. Intraoperative Inadvertent Hypothermia results in which of the following?
- | | |
|-----------------------------------|--|
| (1) Metabolic alkalosis | (2) Antagonism of action of muscle relaxants |
| (3) Increased surgical blood loss | (4) Thromboembolism |
158. The nerve that needs to be blocked to obliterate the gag reflex when applying pressure to the posterior portion of the tongue during an awake fiber-optic intubation is the -
- | | |
|-------------------------------|------------------------------|
| (1) Recurrent laryngeal nerve | (2) Glossopharyngeal nerve |
| (3) Superior laryngeal nerve | (4) Inferior laryngeal nerve |

159. The most probable cause of desaturation during one lung ventilation is -
- (1) Double lumen tube malpositioning
 - (2) V/Q mismatch
 - (3) Atelectasis
 - (4) Secretions
160. The following statement applies to day-case anaesthesia -
- (1) Driving may be permitted within 24 hours
 - (2) Starvation is not mandatory
 - (3) Intubation is acceptable
 - (4) Premature infants can be taken up
161. Earliest sign of lignocaine toxicity is -
- (1) Altered mental status
 - (2) Perioral numbness
 - (3) Convulsions
 - (4) Arrhythmias
162. Which of the following statements with regard to anaesthetic drug dosing in the morbidly obese is true?
- (1) Thiopentone sodium dose for induction is calculated according to total body weight.
 - (2) The dose of suxamethonium is calculated on the basis of lean body weight.
 - (3) Rocuronium dose depends on total body weight.
 - (4) Propofol used as infusion for total intravenous anaesthesia should be based upon total body weight.
163. All are true about Oculocardiac Reflex (OCR), except -
- (1) Most often elicited by traction on the extraocular muscles
 - (2) The most common manifestation of the reflex is sinus bradycardia
 - (3) The OCR is mediated by the afferent ophthalmic division of the mandibular nerve and the efferent vagal nerve
 - (4) Strabismus surgery is risk factor for OCR
164. Which of the following is true regarding Dabigatran?
- (1) It is an indirect thrombin inhibitor
 - (2) Its metabolism is renal independent
 - (3) It is a newer oral antiplatelet medication
 - (4) Idarucizumab is a specific antagonist of Dabigatran

165. Immediate treatment of postoperative thyrotoxic crisis does NOT include -
- (1) Active re-warming
 - (2) Intravenous steroids
 - (3) Propranolol
 - (4) Potassium iodide
166. During apnoeic oxygenation via a rigid bronchoscope, anaesthetic considerations include all of the following, except -
- (1) Duration of the procedure is limited by the increase in carbon dioxide
 - (2) Denitrogenation should be performed prior to apnoea
 - (3) PaCO₂ remains unchanged for the first 15 minutes
 - (4) Functional residual capacity and body weight influence the rate of desaturation
167. Which of the following lung volumes or capacities change the LEAST during pregnancy?
- (1) Tidal Volume (VT)
 - (2) Functional Residual Capacity (FRC)
 - (3) Expiratory Reserve Volume (ERV)
 - (4) Vital Capacity (VC)
168. Preeclampsia is associated with all of the following physiologic characteristics except for -
- (1) Decreased uteroplacental blood flow
 - (2) Increased systemic vascular resistance
 - (3) Increased central venous and pulmonary artery wedge pressures
 - (4) Increased systemic blood pressure
169. What is the maximum FiO₂ that can be administered to the mother without increasing the risk of Retinopathy of Prematurity (ROP) in the fetus in utero?
- (1) 0.35
 - (2) 0.50
 - (3) 0.75
 - (4) 1.0
170. According to NICE and RCOG, Caesarean Section done, when there is immediate threat to the life of the woman or fetus is categorized as -
- (1) Category 1
 - (2) Category 2
 - (3) Category 3
 - (4) Category 4
171. In PECS I block, local anaesthetic is deposited between -
- (1) Pectoralis major & Intercostal muscle
 - (2) Pectoralis minor & Serratus muscle
 - (3) Serratus & Latissimus dorsi muscle
 - (4) Pectoralis major & minor

172. Blood supply to the spinal cord is by -
- (1) Two posterior spinal arteries and two anterior spinal arteries
 - (2) Two posterior spinal arteries and one anterior spinal artery
 - (3) Branches of the lumbar arteries
 - (4) Radicularis magna (artery of Adamkiewicz) and two posterior spinal arteries
173. Which of the following anaesthetic technique is found to decrease the incidence of postoperative cognitive dysfunction?
- (1) Use of TIVA with BIS of 40 to 60
 - (2) Use of TIVA with BIS of less than 50
 - (3) Use of TIVA without BIS monitoring
 - (4) Use of inhalational agents without BIS monitoring
174. Axillary block with respect to supraclavicular block -
- (1) gives better blockade of the shoulder
 - (2) has a lower incidence of intravascular injection
 - (3) gives a better block of muscles of the hand
 - (4) has a higher incidence of pneumothorax
175. Each of the following is a potential complication of thoracic paravertebral blocks, except -
- (1) Pneumothorax
 - (2) Epidural spread of local anaesthetic
 - (3) Hypertension
 - (4) Total spinal spread
176. A donor has been brought to theatre for multi-organ retrieval. As part of perioperative management, which of the following is true?
- (1) Avoid neuromuscular blocking agent since the donor is deceased
 - (2) Inhalational agents can be used to mitigate sympathetic responses to surgery
 - (3) Opioid medications are of no use as the patient is not having any perception of pain
 - (4) Cold IV fluids must be administered to suppress the organ metabolism

177. A 60-year-old woman underwent kidney transplant 3 years ago. Recently she has been experiencing an increase in anginal symptoms and worsening hypertension. Which immunosuppressive agent is the most likely cause of her symptoms?
- (1) Azathioprine (2) Prednisolone
(3) Cyclosporine (4) Rapamycin
178. In acute respiratory acidosis, for every increase in PaCO₂ by 1 mm Hg the approximate increase in HCO₃⁻ is -
- (1) 0.1 mmol/L (2) 0.2 mmol/L
(3) 0.3 mmol/L (4) 0.4 mmol/L
179. Which of the following is least commonly seen in MRI setup?
- (1) Noise pollution (2) Hypothermia
(3) Burns (4) Interference with monitoring
180. Pediatric airway differs from adult airway in all, except -
- (1) Relatively large size of infant's tongue in relation to oropharynx
(2) Larynx is located higher (more cephalad) in the neck
(3) Epiglottis is short, stubby and omega shaped
(4) Narrowest part of infant larynx is at the level of vocal cords

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