

APZ

**PROVISIONAL ANSWER KEY [CBRT]**

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**Instructions / સૂચના**

**Candidate must ensure compliance to the instructions mentioned below, else objections shall not be considered: -**

- (1) All the suggestion should be submitted in prescribed format of suggestion sheet Physically.
- (2) Question wise suggestion to be submitted in the prescribed format (Suggestion Sheet) published on the website.
- (3) All suggestions are to be submitted with reference to the Master Question Paper with provisional answer key (Master Question Paper), published herewith on the website. Objections should be sent referring to the Question, Question No. & options of the Master Question Paper.
- (4) Suggestions regarding question nos. and options other than provisional answer key (Master Question Paper) shall not be considered.
- (5) Objections and answers suggested by the candidate should be in compliance with the responses given by him in his answer sheet. Objections shall not be considered, in case, if responses given in the answer sheet /response sheet and submitted suggestions are differed.
- (6) Objection for each question shall be made on separate sheet. Objection for more than one question in single sheet shall not be considered & treated as cancelled.

**ઉમેદવારે નીચેની સૂચનાઓનું પાલન કરવાની તકેદારી રાખવી, અન્યથા વાંધા-સૂચન અંગે કરેલ રજૂઆતો ધ્યાને લેવાશે નહીં**

- (1) ઉમેદવારે વાંધા-સૂચનો નિયત કરવામાં આવેલ વાંધા-સૂચન પત્રકથી રજૂ કરવાના રહેશે.
- (2) ઉમેદવારે પ્રશ્નપ્રમાણે વાંધા-સૂચનો રજૂ કરવા વેબસાઈટ પર પ્રસિધ્ધ થયેલ નિયત વાંધા-સૂચન પત્રકના નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતા તમામ વાંધા-સૂચનો વેબસાઈટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી (માસ્ટર પ્રશ્નપત્ર)ના પ્રશ્ન ક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (4) માસ્ટર પ્રશ્નપત્ર માં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા-સૂચન ધ્યાને લેવામાં આવશે નહીં.
- (5) ઉમેદવારે જે પ્રશ્નના વિકલ્પ પર વાંધો રજૂ કરેલ છે અને વિકલ્પ રૂપે જે જવાબ સૂચવેલ છે એ જવાબ ઉમેદવારે પોતાની ઉત્તરવહીમાં આપેલ હોવો જોઈએ. ઉમેદવારે સૂચવેલ જવાબ અને ઉત્તરવહીની જવાબ ભિન્ન હશે તો ઉમેદવારે રજૂ કરેલ વાંધા-સૂચન ધ્યાનમાં લેવાશે નહીં.
- (6) એક પ્રશ્ન માટે એક જ વાંધા-સૂચન પત્રક વાપરવું. એક જ વાંધા-સૂચન પત્રકમાં એકથી વધારે પ્રશ્નોની રજૂઆત કરેલ હશે તો તે અંગેના વાંધા-સૂચનો ધ્યાને લેવાશે નહીં.

001. Nicotinic cholinergic receptor present at neuromuscular junction is complex structure is made up of how many subunits?  
 (A) 2 (B) 3  
 (C) 4 (D) 5
002. The Cricoid cartilage is situated at which vertebral level?  
 (A) C4 (B) C5  
 (C) C6 (D) C7
003. All of the following anatomical landmarks related to the axillary artery considered while giving axillary block are correct except ?  
 (A) Median nerve is superior to the axillary artery  
 (B) Ulnar nerve is inferior to the axillary artery  
 (C) Radial nerve is posterolateral to the axillary artery  
 (D) Musculocutaneous nerve is posteromedial to the axillary artery
004. Phrenic nerves supplying the Diaphragm originate from which of the following cervical spinal nerves?  
 (A) C2, 3, 4 (B) C3, 4, 5  
 (C) C4, 5, 6 (D) C5, 6, 7
005. Which of the following structure forms the posterior boundary of epidural space?  
 (A) Posterior longitudinal ligament (B) Interspinous ligament  
 (C) Ligamentum flavum (D) Intervertebral foramina
006. Motor supply to all the muscles of larynx except cricothyroid is by \_\_\_\_\_.  
 (A) Superior Laryngeal Nerve (B) Recurrent Laryngeal Nerve  
 (C) Glossopharyngeal Nerve (D) Olfactory Nerve
007. Which of the following technique for central venous catheterization is called as Seldinger technique?  
 (A) Catheter over a needle (B) Catheter through a needle  
 (C) Catheter through a cannula (D) Catheter over a guide wire
008. Which of the following statements is the incorrect statement regarding airway anatomy in Infants as compared to adults  
 (A) Relatively larger tongue (B) The larynx is located lower in the neck  
 (C) The vocal cords are angled (D) Narrowest portion at Cricoid cartilage
009. Left dominant coronary circulation occurs when posterior descending coronary artery is supplied by \_\_\_\_\_.  
 (A) Right coronary artery (B) Left coronary artery  
 (C) Left circumflex coronary artery (D) Left anterior descending
010. For intercostal nerve block, the drug needs to be placed near \_\_\_\_\_ axillary line  
 (A) anterior (B) posterior  
 (C) lateral (D) none of the above
011. How much amount of CSF is formed daily by Choroid plexuses of cerebral ventricles?  
 (A) 300 ml (B) 500 ml  
 (C) 700 ml (D) 1000 ml



025. Which of the following buffer system serve as an effective intracellular buffer in our body being most abundant intracellular anion?
- (A) Bicarbonate buffer system (B) Albumin buffer system  
 (C) Ammonia buffer system (D) Phosphate buffer system
026. The plasma osmolality lies between \_\_\_\_\_ mosm/lit
- (A) 245-265 (B) 275-285  
 (C) 285-295 (D) 200- 235
027. The normal range of glycosylated haemoglobin is
- (A) 2-5%  (B) 5-7%  
 (C) 4-7% (D) <3%
028. Using citrate- phosphate-dextrose adenine solution, RBCs can be stored up to \_\_\_\_\_ .
- (A) 35 days (B) 49 days  
 (C) 55 days (D) 30 days
029. Cryoprecipitate contains high concentration of following component
- (A) Factor II  (B) Factor IX  
 (C) Fibrinogen (D) All of the above
030. Prophylactic treatment is indicated for women with Von Willebrand disease with factor < \_\_\_\_\_ IU/DL
- (A) 40 (B) 50  
 (C) 60 (D) 100
031. Which of the following is the drug of choice for migraine pain?
- (A) Tricyclic antidepressants  (B) Triptans  
 (C) Carbamazepine (D) Lamotrigine
032. Which of the following drug undergoes ion trapping in acidic gastric fluid?
- (A) Fentanyl (B) Thiopental  
 (C) Etomidate (D) Midazolam
033. Which of the following terminology is more related to the constant infusion of intravenous anaesthetic drugs?
- (A) Context sensitive half time  (B) Elimination half time  
 (C) Volume of distribution (D) Degree of ionisation
034. Which of the following inhalational anaesthetic agent has highest MAC (Minimal alveolar concentration)?
- (A) Isoflurane (B) Desflurane  
 (C) Enflurane (D) Sevoflurane
035. Which of the following is not the side effect of propofol?
- (A) Lactic acidosis (B) Adrenocortical suppression  
 (C) Abuse potential (D) Proconvulsant
036. Which of the following is the opioid agonist- antagonist drug?
- (A) Meperidine  (B) Tramadol  
 (C) Butorphanol (D) Morphine

037. Systemic absorption of local anaesthetic drugs is highest through which site of injection?  
 (A) Epidural (B) Brachial plexus  
 (C) Caudal (D) Intercostal
038. Which of the following is the principal organ responsible for elimination of Vecuronium?  
 (A) Liver (B) Kidney  
 (C) Lungs (D) Spontaneous degradation
039. Which of the following sympathomimetic has direct as well as indirect action on adrenergic receptors?  
 (A) Dopamine (B) Dobutamine  
 (C) Ephedrine (D) Isoproterenol
040. The drug of choice for muscle relaxation in patients with kidney failure is \_\_\_\_\_.  
 (A) Vecuronium (B) Rocuronium  
 (C) Succinylcholin (D) Atracurium
041. A suitable alternative to succinylcholine for rapid sequence induction due to its early onset of action is \_\_\_\_\_.  
 (A) Mivacurium (B) Atracurium  
 (C) Rocuronium (D) Pancuronium
042. Human NPH Insulin is which type of Insulin?  
 (A) Ultrashort Acting (B) Short Acting  
 (C) Intermediate acting (D) Long Acting
043. The sugammadex provides effective reversal of  
 (A) Vecuronium (B) Rocuronium  
 (C) Pancuronium (D) Atracurium
044. Which statement regarding ropivacaine is correct?  
 (A) More toxic than bupivacaine  
 (B) Provides more motor block than bupivacaine  
 (C) Provides better sensory block than bupivacaine  
 (D) Can cause arrhythmia when given
045. The dose of propofol infusion for conscious sedation is \_\_\_\_\_ ug/kg/minute  
 (A) 20-40 (B) 25-75  
 (C) 50- 70 (D) 70- 100
046. The WHO essential anesthesia drug list includes all of the above except  
 (A) Blood Products (B) Ether  
 (C) Atracurium (D) Propofol
047. The therapeutic index of a drug is a ratio of \_\_\_\_\_  
 (A) LD50/ED50 (B) ED50/LD50  
 (C) LD50 × ED50 (D) LD50 + ED 50
048. The following drugs are called TOTAL ANESTHETICS:  
 (A) Intravenous anesthetic agents (B) Inhalational agents  
 (C) Sedatives (D) Opioids

049. The bolus dose of flumazenil to reverse effect of benzodiazepines is \_\_\_\_\_ ug/kg intravenously  
 (A) 5-10 (B) 8-15  
 (C) 2-8 (D) 5-15
050. Following type of amnesia is produced by ketamine  
 (A) Anterograde  (B) Retrograde  
 (C) Both (A) and (B) (D) None of the above
051. Emergence delirium of ketamine is due to inhibition of \_\_\_\_\_ area in the brain.  
 (A) Pons (B) Medial geniculate nucleus  
 (C) Lateral geniculate nucleus (D) Reticular activating system
052. Dexmedetomidine has alpha 2: alpha1 receptor blockade ratio of \_\_\_\_\_  
 (A) 220:1 (B) 1620:1  
 (C) 100:2 (D) 150:5
053. The sedative dose of dexmedetomidine is \_\_\_\_\_  
 (A) 1 ug/kg followed by 5-10 ug/kg  (B) 0.2 - 0.7 ug/kg/hour  
 (C) 0.1 - 0.5 ug/kg/hour (D) 1 - 2 ug/kg/hour
054. The clinical duration of action of morphine is \_\_\_\_\_ hours  
 (A) 4 (B) 6  
 (C) 8 (D) 10
055. The dose of tramadol for moderate to severe pain relief is \_\_\_\_\_  
 (A) 2 mg/kg  (B) 3 mg/kg  
 (C) 4 mg/kg (D) 5 mg/kg
056. The affinity of buprenorphine for u receptors is \_\_\_\_\_ times more than morphine.  
 (A) 20 (B) 30  
 (C) 40 (D) 50
057. The mechanism of action of gabapentin is --- on  
 (A) Voltage dependent calcium channels (B) NMDA receptor  
 (C) AMPA receptor (D) Chloride channels
058. Which of the following is NOT used as indicator in CO<sub>2</sub> absorbents?  
 (A) Phenolphthalein (B) Ethyl Violet  
 (C) Methyl Orange (D) Clayton yellow
059. Which of the following preformed endotracheal tube is frequently used for head and neck surgeries?  
 (A) PVC tube  (B) Cole tube  
 (C) Laser tube (D) RAE tube
060. Which of the following nerve is most commonly used to monitor neuromuscular blockade?  
 (A) Ulnar nerve  (B) Mandibular nerve  
 (C) Facial nerve (D) Peroneal nerve
061. Which of the following Mapleson circuit does not have a reservoir bag?  
 (A) A (B) D  
 (C) C (D) E

062. What is the Pin index for Nitrous Oxide ?  
 (A) 2, 5  (B) 3, 5  
 (C) 2, 6  (D) 3, 6
063. Labeling on the cylinder includes all, EXCEPT?  
 (A) Name of the gas  (B) Hazard class of gas  
 (C) Signal word  (D) Colour code
064. What is the approximate capacity of 'E' cylinder of oxygen?  
 (A) 500 liters  (B) 650 liters  
 (C) 750 liters  (D) 900 liters
065. Which one of the following Practices does not prevent cross contamination ?  
 (A) Using filters  
 (B) Anti overflow devices  
 (C) Closed suction systems  
 (D) Adding disinfectant solution to the collection container
066. Which of the following is not the component of high pressure system of anaesthesia machine?  
 (A) Hanger yoke  (B) Cylinder pressure gauge  
 (C) Cylinder pressure regulator  (D) Oxygen flush
067. Number of calories necessary to convert 1gm of liquid into a vapor is called as \_\_\_\_\_  
 (A) Specific Heat  (B) Thermal conductivity  
 (C) Heat of vaporization  (D) Boiling point
068. Which of the following absorbent indicator changes its colour from white to purple after exhaustion?  
 (A) Ethyl violet  (B) Phenolphthalein  
 (C) Ethyl orange  (D) Mimosa Z
069. Classic Laryngeal mask airway (LMA) is made up of which of the following material?  
 (A) Rubber  (B) Metal  
 (C) Polyvinyl chloride  (D) Silicone
070. Which of the following is the Sniffing position ?  
 (A) Head extension, Neck flexion  (B) Head flexion, Neck extension  
 (C) Head and Neck extension  (D) Head and Neck flexion
071. Which of the following endotracheal tube is used for neonatal resuscitation?  
 (A) Magill tube  (B) Endoflex tube  
 (C) Endotrol tube  (D) Cole Tube
072. What should be the approximate cuff width for accurate noninvasive blood pressure measurement?  
 (A) 30-40% of the limb circumference  (B) 40-50% of the limb circumference  
 (C) 50-60% of the limb circumference  (D) 60-70% of the limb circumference
073. Bain Circuit is a modification of which of the following circuit?  
 (A) Mapleson A  (B) Mapleson B  
 (C) Mapleson C  (D) Mapleson D

074. Psi stands for \_\_\_\_\_
- (A) Pressure square inch (B) Pounds square inch  
(C) Pounds per square inch (D) Pressure per square inch
075. Which of the following supraglottic airway device has an oesophageal drain tube?
- (A) LMA flexible (B) LMA classic  
(C) LMA soft seal (D) LMA Proseal
076. Which of the following is not one of the signs indicating successful tracheal intubation?
- (A) Gastric contents in the tracheal tube  
(B) Direct visualisation of tube passing between the cords  
(C) Auscultation of breath sounds on the chest  
(D) Presence of CO<sub>2</sub> in expired gases
077. Thorpe tubes are component of which part of anaesthesia machine?
- (A) Flow meters (B) Breathing system  
(C) Auxiliary oxygen supply (D) Vaporizer
078. Which of the following is not considered as indicator of carbon dioxide absorbent exhaustion?
- (A) Increased inspired CO<sub>2</sub> (B) Increased expired CO<sub>2</sub>  
(C) Indicator colour change (D) Increased temperature of cannister
079. Which of the following is a true statement about Guedel Airway?
- (A) It is a nasopharyngeal airway (B) It is an oropharyngeal airway  
(C) It has a central groove on lingual surface (D) It is open on one side
080. Which of the following is not a supraglottic airway device?
- (A) Endotracheal tube (B) Laryngeal mask airway  
(C) Cobra PLA (D) SLIPA
081. What is the name of the hole on the endotracheal tube on the opposite side of bevel?
- (A) Murphy eye (B) Magill eye  
(C) Macintosh eye (D) Mathew eye
082. Which of the following is the most widely used material in disposable endotracheal tube?
- (A) Polyvinyl chloride (B) Red rubber  
(C) Silicone (D) Stainless steel
083. Link 25 is the safety mechanism for the flow of oxygen and nitrous oxide in \_\_\_\_\_
- (A) Anesthesia workstation (B) Cylinders  
(C) Central gas pipeline (D) Breathing systems
084. Which of the following is most widely used material in disposable endotracheal tube?
- (A) Polyvinyl chrodide (B) Red rubber  
(C) Silicone (D) Stainless steel
085. All of the following devices can be used for administartion of one lung anaesthesia except \_\_\_\_\_
- (A) Double lumen tube  
(B) Bronchial blocker  
(C) Endotracheal tube in the mainstream bronchus  
(D) Combitube

086. What is the International colour code for Nitrous Oxide cylinder?  
 (A) White (B) Gray  
 (C) Blue (D) Black
087. Which of the following statement is not correct statement regarding Rendell-Baker-Soucek mask?  
 (A) For paediatric age group (B) For geriatric age group  
 (C) A triangular body (D) Low dead space
088. Which of the following is not the absolute contraindication for Neuraxial blockade?  
 (A) Patient refusal (B) Local sepsis  
 (C) Raised intracranial pressure (D) Peripheral neuropathy
089. Which of the following is the dura cutting spinal needle?  
 (A) Pitkin (B) Whitacre  
 (C) Sprotte (D) None of the above
090. Taylor approach which is modified paramedian approach is used to block which intervertebral space?  
 (A) L2-L3 (B) L3-L4  
 (C) L4-L5 (D) L5-S1
091. According to modified Aldrete discharge score, how much total score is required for release of patient from postanesthesia care unit?  
 (A) 7 (B) 8  
 (C) 9 (D) 10
092. For establishing medical negligence and successful litigations all of the following criterias are required except  
 (A) The claimant must be owed a duty of care  
 (B) Breach of duty of care by failure to provide reasonable standard of care should be established  
 (C) The doctor should have a reasonable degree of skill and knowledge  
 (D) The claimant should have suffered damages resulting from actions of the Anaesthesiologist
093. Overpressure technique for induction of anaesthesia by inhalational anaesthetics is based on which partition coefficient of inhalational anaesthetics?  
 (A) Blood:gas (B) Brain:blood  
 (C) Fat:blood (D) Oil:gas
094. According to the Sokolow-Lyon criteria, how much should be the summation of S wave in V1 and R wave in V5 or V6 to define left ventricular hypertrophy of heart?  
 (A) > 20 mm (B) > 25 mm  
 (C) > 30 mm (D) > 35 mm
095. What is Wenckebach phenomenon in Heart block?  
 (A) Prolonged PR interval at a normal heart rate  
 (B) Progressive beat to beat prolongation of PR interval followed by complete interruption of cardiac impulse  
 (C) Nonconducted atrial impulse without change in PR interval  
 (D) No conduction of beats from the atria to the ventricles

096. For Neonatal resuscitation, which of the following factor should be emphasized first according to the 2015 guidelines of American Heart Association for CPR?  
(A) Temperature regulation (B) Ventilation  
(C) Circulation (D) Defibrillation
097. Which of the following is not the indicator of Transfusion related lung injury (TRALI)?  
(A) Bilateral lung infiltrates on chest X-ray  
(B) Hypoxia  
(C) Pulmonary artery occlusion pressure less than 18mm Hg  
(D) Left atrial hypertension
098. Elective noncardiac surgery should be delayed for how much period after coronary revascularization with drug eluting stent placement?  
(A) 6 months (B) 8 months  
(C) 10 months (D) 12 months
099. Which of the the following is not the one of the Major clinical predictors of increased perioperative cardiovascular risk?  
(A) Unstable Angina (B) Previous history of Myocardial infarction  
(C) Decompensated heart failure (D) Severe valvular heart disease
100. According to the updated guidelines of American Heart Association for Infective Endocarditis prophylaxis in patients with congenital heart disease, for which of the following surgery it is primarily indicated?  
(A) Dental (B) Genitourinary  
(C) Gastrointestinal (D) Obstetric
101. Non-invasive ventilation is most useful in which of the following condition?  
(A) Acute exacerbation of COPD  
(B) Pulmonary embolism  
(C) Pneumonia  
(D) Respiratory failure secondary to myasthenia gravis
102. Which of the following is not the one of the criteria to define Acute respiratory distress syndrome?  
(A)  $\text{PaO}_2:\text{FiO}_2$  less than 200mm Hg  
(B) Bilateral lung infiltrates  
(C) Pulmonary artery wedge pressure less than 18mm Hg  
(D) Left atrial hypertension
103. How much is the recommended pressure at the Cricoid cartilage in Sellick maneuver after loss of consciousness of the patient?  
(A) 10 Newtons (B) 15 Newtons  
(C) 20 Newtons (D) 30 Newtons
104. Which part of action is the heart and soul of Simulation trainings?  
(A) Setting introduction (B) Simulator briefing  
(C) Debriefing (D) Scenarios

105. The issue of pneumocephalus arises most often in which of the following neurologic surgery?  
 (A) Posterior fossa craniotomies in head-up position  
 (B) Posterior fossa craniotomies in prone position  
 (C) Vertebrobasilar aneurysm surgery in lateral position  
 (D) Craniotomies for subdural haemorrhage in supine position
106. Total dose adjustment of which of the following drug is decided based on ideal body weight in Bariatric surgery?  
 (A) Propofol (B) Midazolam  
 (C) Fentanyl (D) Succinylcholine
107. In TURP surgery, what should be the goal of achieving higher maximum anaesthetic block level?  
 (A) T7 (B) T8  
 (C) T9 (D) T10
108. Which of the following inhalational anaesthetic agent decrease the total hepatic blood flow?  
 (A) Halothane (B) Isoflurane  
 (C) Sevoflurane (D) Desflurane
109. Which of the following is not the component of triad of Hepatopulmonary syndrome?  
 (A) End stage liver disease (B) Increased alveolar-arterial gradient  
 (C) Pulmonary hypertension (D) Intrapulmonary vascular dilation
110. Which of the infection is most common in post-renal transplant patients?  
 (A) Cytomegalovirus (B) Hepatitis C  
 (C) Pseudomonas (D) H. Infuenza
111. Which is the hallmark of the postreperfusion syndrome during Neohepatic stage of Liver transplant surgery?  
 (A) Systemic Hypertension  
 (B) Systemic Hypotension and pulmonary hypertension  
 (C) Metabolic alkalosis and hypokalemia  
 (D) Hyperthermia
112. Which of the following drug has minimal placental transfer into the fetal circulation?  
 (A) Non depolarizing neuromuscular blockers  
 (B) Opioids  
 (C) Benzodiazepines  
 (D) Local anaesthetics
113. Fat embolism syndrome is well-known complication of which of the following surgery?  
 (A) Femur fracture surgery (B) Neurosurgery  
 (C) Cesarean section (D) Breast surgery
114. One of the most commonly used regional anaesthesia technique in pediatrics is \_\_\_\_\_.  
 (A) spinal (B) caudal epidural anaesthesia  
 (C) I V regional anaesthesia (D) regional nerve blocks
115. A commonly used scoring system to grade the severity of head injury and the outcome is \_\_\_\_\_.  
 (A) Mini Mental Status Examination (B) Glasgow Coma Scale  
 (C) Visual Analog Scale (D) CRIES scale

116. The first public demonstration of general anaesthesia was conducted by \_\_\_\_\_.  
(A) William T G Morton (B) August Bier  
(C) John Lundy and Ralph Waters (D) Crawford W. Long
117. Which of the following anaesthetic agent is known to cause hepatitis when the patient is exposed to it multiple times and at short intervals ?  
(A) Sevoflurane (B) Halothane  
(C) Desflurane (D) Morphine
118. All of the following are Oxygen analyzers, EXCEPT \_\_\_\_\_.  
(A) Magnetic (B) Polarographic  
(C) Galvanic (D) Paramagnetic
119. Which of the following is a water soluble prodrug of propofol that is metabolised to propofol, phosphate & formaldehyde?  
(A) Dispropofol (B) Fospropofol  
(C) Diprivan (D) Propofol
120. Which of the following volatile anaesthetic agent requires electronically controlled vaporizer?  
(A) Isoflurane (B) Sevoflurane  
(C) Desflurane (D) Halothane
121. National Institute for Occupational Safety and Health (NIAOSH) recommends limiting the room concentration of  $N_2O$  to \_\_\_\_\_.  
(A) 25 ppm (B) 35 ppm  
(C) 45 ppm (D) 55 ppm
122. All of the following are true about Crossover trials, Except-  
(A) Involves a single group study where each patient receives two or more treatments in turn  
(B) Each patient acts as their own control  
(C) feasible for treatments for acute conditions  
(D) carry-over effect is avoided by washout period
123. All of the following are examples of Categorical data, Except-  
(A) Gender (B) Disease status  
(C) Marital status (D) Weight
124. Test used for an association between two categorical variables is \_\_\_\_\_.  
(A) Chi-squared test (B) Paired t test  
(C) Unpaired t test (D) Z test
125. Which of the following is not a characteristics of Cohort study design?  
(A) Usually prospective (B) Can be retrospective  
(C) Starts with Disease onset (D) Follow up to monitor the disease
126. Use of Rapid antigen test as a point of care diagnostic assay for testing is done in following setting Except-  
(A) All symptomatic influenza like illnesses  
(B) Asymptomatic patients undergoing aerosol generating surgical / non-surgical interventions  
(C) Asymptomatic direct and high risk contacts with co-morbidities  
(D) Low risk contact in hospital care setting

127. Use of Tocilizumab in COVID-19 is at the following stage-  
 (A) Fusion and Endocytosis (B) IL-6 Receptor  
 (C) Viral Coating (D) Proteolysis
128. Which of the following is predictor for high mortality in COVID-19?  
 (A) Elevated Ferritin levels (B) Elevated d-dimer levels  
 (C) Presence of coagulopathy (D) All of the above
129. Which of the following is a method of sterilization by moist heat?  
 (A) Flaming (B) Incineration  
 (C) Hot air oven (D) Autoclaving
130. Which of the following is quick and non toxic method of sterilization for operation theatre rooms?  
 (A) Ethylene Oxide Gas (B) Formaldehyde gas fumigation  
 (C) Hydrogen Peroxide Fogging (D) Beta Propiolactone Fumigation
131. Acute Pain of herpes zoster ophthalmicus can be treated by which of the following nerve block?  
 (A) Greater occipital nerve block (B) Superficial cervical plexus block  
 (C) Stellate ganglion block (D) Sphenopalatine block
132. Three in one block includes which group of nerves?  
 (A) Femoral, Obturator, Lateral cutaneous (B) Popliteal, femoral, lateral cutaneous  
 (C) Obturator, sciatic, lateral cutaneous (D) Genitofemoral, obturator, sciatic
133. Which of the following is sympathetic block?  
 (A) Infraorbital nerve block (B) Axillary plexus block  
 (C) Stellate ganglion block (D) Penile block
134. Which of the following statements is Incorrect statement about paediatric regional anaesthesia?  
 (A) Epidural anaesthesia is performed using Tuohy needles ranging in size from 22-17 gauge  
 (B) Caudal anaesthesia is performed using Crawford needles  
 (C) Incidence of PDPH is high in paediatric patients compared to adults  
 (D) Due to sympathetic immaturity, fluid preloading is unnecessary
135. All of the statements regarding Inhaled anaesthetics in children are correct except  
 (A) Infants have higher MAC than older children or adults  
 (B) Uptake of volatile anaesthetics is more rapid in children  
 (C) Safety margin between anaesthetic overdose and inadequate depth of anaesthesia is small  
 (D) Number of MAC multiples for neonates allowed by Desflurane vaporizer is highest
136. All of the following changes are seen in class 2 acute haemorrhagic shock except  
 (A) 750-1500 ml blood loss (B) Tachycardia  
 (C) Hypotension (D) Tachypnea
137. All of the following surgery can be performed on ambulatory basis except  
 (A) Laparoscopic cholecystectomy (B) Hemorrhoidectomy  
 (C) Hemicolectomy (D) Gastric banding
138. Which of the following Laser does not cause Retinal damage?  
 (A) CO<sub>2</sub> (B) Nd-YAG  
 (C) KTP (D) Argon

139. All the statements about Bipolar electrocautery unit are correct except  
 (A) Composed of a generator and 2 electrodes located within millimetres of each other  
 (B) No current flows through the patient's body  
 (C) Allows energy to be localized more precisely  
 (D) A good instrument for cutting the tissue
140. All of the following situations may require pacemaker Reprogramming except  
 (A) Lithotripsy (B) Transurethral resection  
 (C) Succinylcholine use  (D) Neostigmine use
141. Which of the following statement is incorrect regarding High-frequency Oscillatory Ventilation?  
 (A) High mean airway pressure  
 (B) Oscillatory pressure stroke frequency is 180-900 beats/min  
 (C) Causes active expiration  
 (D) Delivers high tidal volume
142. Cardiac output is increased about \_\_\_\_\_ above the non pregnant level by 10<sup>th</sup> week of gestation.  
 (A) 30% (B) 40%  
 (C) 50%  (D) 25%
143. Pregnancy is a stage of compensatory \_\_\_\_\_  
 (A) Respiratory acidosis (B) Respiratory alkalosis  
 (C) Metabolic acidosis (D) Metabolic alkalosis
144. Epidural and spinal local anaesthetic drug dose requirement reduces by \_\_\_\_\_  
 (A) 20-30%  (B) 30-40%  
 (C) 30-50% (D) 40-50%
145. The optimal depth of insertion for a left sided DLT is correlated with the patient's \_\_\_\_\_ in an average sized adult  
 (A) Weight  (B) Height  
 (C) BMI (D) age
146. Current Society of thoracic surgeon guidelines recommend to keep blood sugar level below \_\_\_\_\_ % throughout the perioperative period in cardiovascular surgery  
 (A) 120 mg (B) 140 mg  
 (C) 150 mg  (D) 180 mg
147. Severe preeclampsia is defined as blood pressure > \_\_\_\_\_ mm Hg  
 (A) 140/90 (B) 150/110  
 (C) 160/100 (D) 180/120
148. Surgical care improvement project SCIP guidelines recommend \_\_\_\_\_ as prophylactic antibiotic for cardiac surgery  
 (A) Penicillin (B) Cephalosporin  
 (C) Piptaz (D) Meropenem
149. Roller pump in CABG surgery pose risk of \_\_\_\_\_  
 (A) DIC  (B) Air embolism  
 (C) Infection (D) Hypotension

150. Oxygenators can arterialize venous blood at the rate of \_\_\_\_\_ in CABG surgery  
 (A) 4 L/min (B) 5 L/min  
 (C) 6 L/min (D) 7 L/min
151. While CPB is maintained, the SVO<sub>2</sub> is maintained above \_\_\_\_\_ %  
 (A) 50 (B) 55  
 (C) 60 (D) 65
152. Which of the following is considered as best catheter for hemodynamic monitoring during cardiac revascularisation surgery?  
 (A) Invasive blood pressure (B) PA catheter  
 (C) TEE  (D) ABG
153. Janneta position in neurosurgery is \_\_\_\_\_ position.  
 (A) Prone  (B) Semi lateral with shoulder roll  
 (C) 15 degree Head up (D) Head low
154. Grade III of Hunt and HESS classification after Subarachnoid hemorrhage includes  
 (A) Headache  (B) Nuchal rigidity  
 (C) Drowsiness (D) Decerebrate rigidity
155. Obesity surgery is indicated with BMI > \_\_\_\_\_  
 (A) 30 (B) 40  
 (C) 50 (D) 60
156. Neck circumference of > \_\_\_\_\_ cm in men and > \_\_\_\_\_ cm in women is associated with obstructive sleep apnea  
 (A) 43 & 40.5 (B) 40 & 42.5  
 (C) 45 & 43.5 (D) 44 & 42.5
157. Cold ischemia time for kidney is  
 (A) 8 hours  (B) 12 hours  
 (C) 24 hours (D) 36 hours
158. Apnea test should be aborted if systolic blood pressure drops below < \_\_\_\_\_ and SPO<sub>2</sub> < \_\_\_\_\_  
 (A) 90 mm Hg & 85% (B) 90 mm Hg & 90 %  
 (C) 80 mm Hg & 85% (D) 85 mm Hg & 90%
159. Best predictor of perioperative mortality in liver cirrhosis patients is \_\_\_\_\_  
 (A) Child Pugh score (B) Modified Child Pugh score  
 (C) MELD score  (D) None of the above
160. PEEP or CPAP may improve arterial oxygenation by -- except  
 (A) Expanding functionally collapsed alveoli  
 (B) Redistributing lung water  
 (C) Reducing ventilation perfusion mismatch  
 (D) Reducing infection or inflammation

161. Chronic mountain sickness syndrome at altitude higher than 2500 meter is characterised by --- except --
- (A) Excessive erythrocytosis
  - (B) Systemic hypertension
  - (C) Pulmonary hypertension and cor pulmonale
  - (D) Severe hypoxemia
162. The choice of treatment for ventricular tachycardia to convert arrhythmia to a stable rhythm is \_\_\_\_\_
- (A) Defibrillation
  - (B) Injection adrenaline
  - (C) Injection amiodarone
  - (D) Injection adenosine
163. Which intravenous anesthetic agent is best for ambulatory anaesthesia?
- (A) Pentothal sodium
  - (B) Ketamine
  - (C) Propofol
  - (D) Etomidate
164. Propofol is ideal anaesthetic induction agent because \_\_\_\_\_
- (A) Rapid and smooth induction
  - (B) Without airway irritation
  - (C) Rapid recovery
  - (D) Less incidence of post operative nausea and vomiting
165. Naso tracheal intubation is contraindicated in the following conditions except:
- (A) Basilar skull or cribriform plate fracture
  - (B) Patient with haemorrhage/ coagulation disorder
  - (C) Nasal polyps
  - (D) Tonsillar surgery
166. Which of the following is the most effective and reliable method of reducing pain during labour?
- (A) Epidural labour analgesia
  - (B) Systemic medications
  - (C) Inhaled analgesia
  - (D) Transcutaneous nerve stimulation
167. Regional anaesthesia technique for ophthalmic surgery include all except \_\_\_\_\_
- (A) Retrobulbar block
  - (B) Peribulbar block
  - (C) Topical instillation
  - (D) Subdural block
168. Magnesium sulphate has analgesic property due to action on \_\_\_\_\_
- (A) NMDA
  - (B) AMPA
  - (C) Substance P
  - (D) CGMP
169. The first synthetic ester derived local anaesthetic is \_\_\_\_\_
- (A) Cocaine
  - (B) Procaine
  - (C) Lignocaine
  - (D) Sensorcaine
170. The administration of succinylcholine increases plasma potassium concentration by \_\_\_\_\_ mEq/liter
- (A) 0.4
  - (B) 0.5
  - (C) 0.6
  - (D) 1

171. Which of the following metabolite of pancuronium is responsible for prolongation of duration of block?  
 (A) 3-OH (B) 17-OH  
 (C) 3, 7 di OH (D) All of the above
172. Cushing reflex is \_\_\_\_\_  
 (A) Hypertension, bradycardia and irregular respiration  
 (B) Hypotension, bradycardia and increased intracranial pressure  
 (C) Hypotension, tachycardia and irregular respiration  
 (D) Bradycardia, increased intracranial pressure and ventricular tachycardia
173. In humans, plasma colloid oncotic pressure is \_\_\_\_\_ mm Hg  
 (A) 25 (B) 28  
 (C) 30 (D) 32
174. The myasthenic patient shows \_\_\_\_\_ to non depolarising muscle relaxants  
 (A) Resistance (B) Sensitivity  
 (C) No response (D) Variable response
175. Which of the following about minimum alveolar concentration MAC is true?  
 (A) It is the alveolar concentration of anaesthetic that prevents movement to intubation in 90% of patients  
 (B) It is alveolar concentration that prevents movement to surgical stimulus in 50% of patients  
 (C) It is alveolar concentration of anaesthetic that blunts adrenergic responses to noxious stimuli  
 (D) It is alveolar concentration of anaesthetic at which a patient opens his eyes to command
176. Pneumothorax is a well known complication of \_\_\_\_\_  
 (A) Brachial plexus block (B) Epidural block  
 (C) Axillary block (D) High spinal block
177. High spinal anaesthesia is characterised by \_\_\_\_\_  
 (A) Hypertension tachycardia (B) Hypertension bradycardia  
 (C) Hypotension tachycardia (D) Hypotension bradycardia
178. The static compliance of the respiratory system is reduced during general anaesthesia to a value of \_\_\_\_\_  
 (A) 80 cm of water (B) 60 cm of water  
 (C) 90 cm of water (D) 50 cm of water
179. All of the following are side effects of application of PEEP during general anaesthesia except:  
 (A) Prevention of basal atelectasis (B) Decreased cardiac output  
 (C) Impaired renal function (D) Decrease in intracranial tension
180. Which of the following solution is also called as white blood?  
 (A) Dextrose normal saline (B) Ringer's lactate  
 (C) Ringer's acetate (D) Plasma
181. Mendelson Syndrome occurs due to  
 (A) Metabolic Acidosis (B) High pressure air leak  
 (C) Aspiration of gastric contents (D) Overdose of nitrous oxide



194. Which of the following is included in BLS Healthcare provider Adult cardiac arrest algorithm?  
 (A) Continuous oxygenation with passive oxygenation using face mask  
(B) 30 compressions and 2 breaths using bag and mask ventilation  
(C) Use of supraglottic airway device  
(D) Only chest compressions
195. Droplet precaution in COVID-19 suspect or COVID-19 positive patient includes all Except-  
(A) Gloves (B) Waterproof apron  
 (C) Cotton Mask (D) Eye protection
196. Which of the following position is given to the patient while administering spinal anesthesia?  
 (A) Sitting only (B) Lateral decubitus  
(C) Prone only (D) All of the above
197. Physiological difference of epidural space in Infants from that in adults lead to all of the consequences in Infants after epidural anaesthesia except  
(A) Shorter onset time of action  
 (B) More extended longitudinal spread of local anaesthetics  
(C) Longer duration of action  
(D) Excellent blockade after caudal anaesthesia
198. All of the following are the respiratory changes in geriatric patients which should be considered while anaesthesia management except  
(A) Increased anatomic dead space  (B) Decreased diffusing capacity  
(C) Increased closing capacity (D) Decrease in lung compliance
199. Activated protein C, which can predict outcome of severe sepsis and can be used as a treatment strategy in severe sepsis has all of the following functions except  
(A) Inactivation of factors 5a and 8a (B) Prevents generation of Thrombin  
(C) Permissive effect on thrombolysis  (D) Increased expression of tissue factor
200. Which of the following acute hypertensive episode presents with acute end organ dysfunction?  
 (A) Hypertensive urgency (B) Hypertensive emergency  
(C) Acute hypertensive episode (D) Transient Hypertension