

## FINAL ANSWER KEY

Question 118/2024/OL

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Question1:-Sinoatrial Node (SA Node) is the pacemaker of human heart because

A:-Sinoatrial node is situated in right atrium

B:-Conduction velocity of SA Node is 4 mts/sec

C:-SA Node generates impulses at the fastest rate

D:-SA Node is the sole part of the conducting system

Correct Answer:- Option-C

Question2:-All are causes of positive Babinski sign except

A:-Infants

B:-Deep sleep

C:-Stimulation of pyramidal tract

D:-Dorsiflexion of big toe

Correct Answer:- Option-C

Question3:-The area in brain primarily concerned with planning and programming of events

A:-Cerebellum

B:-Basal Ganglia

C:-Thalamus

D:-Motor area

Correct Answer:- Option-B

Question4:-Factor that shift oxygen dissociation curve to right

A:-Increase in blood PH

B:-Decrease PCO<sub>2</sub>

C:-Increase in body temperature

D:-Decrease in 2, 3, DPG

Correct Answer:- Option-C

Question5:-Physiological changes in pregnancy include all except

A:-Blood volume increase by 30%

B:-Increase in vital capacity

C:-Increased GFR

D:-Decrease in systolic and diastolic blood pressure

Correct Answer:- Option-B

Question6:-Which of the following veins of heart does not open into coronary sinus?

A:-Great cardiac

B:-Middle cardiac

C:-Anterior cardiac

D:-Right Marginal

Correct Answer:- Option-C

Question7:-Most important muscles of expiration are

A:-Diaphragm

B:-External intercostal

C:-Internal intercostals

D:-Abdominal wall muscles

Correct Answer:-**Question Cancelled**

Question8:-The immediate precursor of catecholamines as adrenaline and noradrenaline is

A:-DOPA

B:-Phenylalanine

C:-Tyrosine

D:-Dopamine

Correct Answer:- Option-D

Question9:-Insulin secretion is inhibited by

A:-Secretin

B:-Epinephrine

C:-Growth hormone

D:-Gastrin

Correct Answer:- Option-B

Question10:-Which of the following conditions not associated with ST segment elevation on ECG?

A:-Early repolarization

B:-Hyperkalemia

C:-Acute pericarditis

D:-Hypocalcemia

Correct Answer:- Option-D

Question11:-If a flow meter tube in the anesthesia machine is broken the following should be done:

A:-Only the tube needs to be replaced

B:-The indicator bobbin can be used in the New Flow meter tube

C:-The scale in the Flow meter must be replaced if it is an integral part of the tube

D:-The Flow meter tube, indicator and scale must be replaced on a whole

Correct Answer:- Option-D

Question12:-Which of the following facts reflects about Heat of Vaporization?

A:-It is the amount of heat given off in the process of converting a liquid into vapour

B:-The temperature of the liquid increases as the vaporization proceeds.

C:-The greater the flow of gas, the higher the temperature of the liquid will become.

D:-It is expressed as Calories/gm (gram)

Correct Answer:- Option-D

Question13:-Safety features in Medical gas cylinders are the following except:

A:-Pin index safety system

B:-Colour coding of Cylinders

C:-Fusible plug and Rupture dice in cylinders

D:-Conical depression and Diameter indexed safety system

Correct Answer:- Option-D

Question14:-Storage of Medical gas cylinders should be done in the following manner except

A:-Definitive area designated for storing cylinders which should be cool, clean and constructed with fire resistant material.

B:-Medical gas cylinders should be stored in a secure area and handled only by authorized personnel.

C:-Cylinders should not be exposed to continuous dampness, corrosive chemicals or fumes.

D:-Cylinders should be stored with their wrappings in the definitive area

Correct Answer:- Option-D

Question15:-In the manifold, features regarding shut off valve given below are true, except

A:-Shut off valve permit specific areas of the piping system to be isolated for maintenance, repair and testing.

B:-Manual shut off valves must be installed where it is visible and accessible at all times.

C:-Service shut off valves are designed to be used only by authorised service personnel.

D:-Shut off valves are not required at the outlet of the supply source.

Correct Answer:- Option-D

Question16:-Compressed air is most often supplied by

A:-Proportionating devices

B:-Concentrators

C:-Compressors

D:-Cylinder banks

Correct Answer:- Option-C

Question17:-Best position for intubating an adult patient using rigid Laryngoscope

A:-Shoulder elevation position

B:-Flexion of the lower cervical spine and Extension of the head

C:-Flat on the bed with foot end elevated

D:-Pressure exerted on the top of the head

Correct Answer:- Option-B

Question18:-Advantages of Combitubi include all the following except

A:-It can be used by Non anesthesia personnel

B:-Neck movement is not necessary

C:-The Pharyngeal balloon anchors it in place

D:-Can be used in cases of Oesophageal trauma

Correct Answer:- Option-D

Question19:-Hypothermia in Paediatric patients predisposes to

A:-Metabolic acidosis and increased oxygen uptake

B:-Respiratory depression and hypo ventilation

C:-Prolonged action of drugs and delayed recovery from anaesthesia

D:-All of the above

Correct Answer:- Option-D

Question20:-Regional Anesthesia in Paediatric patients are different from adults except

A:-Onset of Block is faster due to immature myelin sheath.

B:-Dosage of the local anesthetic required is less as the drugs can diffuse faster.

C:-Duration of block is more than for adults.

D:-Children are more vulnerable for toxicity due to increased systemic absorption.

Correct Answer:- Option-C

Question21:-Capnograph can be used to monitor the following

A:-Dislodged or misplaced Endotracheal tube

B:-Disconnection of the breathing circuit

C:-Obstruction of the Endotracheal tube and Bronchospasm

D:-All of the above

Correct Answer:- Option-D

Question22:-Laryngospasm occurring during Anesthesia can be relieved by

A:-Sellick's Manoeuvre

B:-Larson's Manoeuvre

C:-Carotid Massage

D:-Hemlich's Manoeuvre

Correct Answer:- Option-B

Question23:-Factors affecting the height (level) of Block in Spinal Anesthesia (Sub Arachnoid block) are all except

A:-Baricity of the local anesthetic used and the dosage of the drug given

B:-Position of the patient while giving Spinal anesthesia and immediately following spinal

C:-Spinal level chosen and the speed of injection of Local anesthetic

D:-Type of the spinal needle used dura splitting or cutting needle.

Correct Answer:-**Question Cancelled**

Question24:-Regarding Post dural puncture headache all the following are true except

A:-Occurs within 6 hrs of giving Spinal anesthesia.

B:-It is associated with nausea, vomiting, tinnitus, diplopia and even seizures.

C:-Headache is throbbing in nature and usually felt in the occipital region

D:-Headache is increased in the sitting position and decreased in lying down position

Correct Answer:- Option-A

Question25:-In Inter scalene approach for Brachial Plexus, block common complication seen are the following except:

A:-Phrenic Nerve Block

B:-Horner's syndrome due to stellate ganglion block

C:-Epidural or intra thecat injection

D:-Nausea and vomiting

Correct Answer:- Option-D

Question26:-Contraindication for Peripheral Nerve Block are all the following except

A:-Patient suffering from Coagulopathy/ on anticoagulants.

B:-Infection at the site of Needle Placement.

C:-Known case of drug allergy to local anesthetics

D:-Full Stomach Patients

Correct Answer:- Option-D

Question27:-Internal Jugular Vein Cannulation usually done for

- A:-Administration of fluids and central venom pressure monitoring
- B:-For administering Total Parentoral Nutrition
- C:-For administering irritant chemotherapeutic drugs and vasopressor drugs
- D:-All of the above

Correct Answer:- Option-D

Question28:-In Sub clavian vein cannulation common complication occurring in

- A:-Injury to Thoracic duct
- B:-Injuring the Pleura leading to Pneumothorax
- C:-Vascular injury and haematoma formation
- D:-Injury to the trachea

Correct Answer:-**Question Cancelled**

Question29:-Packed Cell transfusion advantages are all except

- A:-Infection and allergic reaction related to plasma can be avoided
- B:-Cardiac overload due to whole blood can be avoided
- C:-Whole blood can be utilized to extract other products like FFP, Platelets, Cryo precipitate and white cell
- D:-Half life of transfused RBC's can be increased.

Correct Answer:- Option-D

Question30:-In acute Blood Transfusion reaction the following measures should be done.

- A:-Stop transfusion and Re check details of Blood stop.
- B:-Send remaining blood back to Blood Bank.
- C:-Maintain Urine output with Intravenous fluids and mannitol.
- D:-All the above.

Correct Answer:- Option-D

Question31:-Which of the following is not correct with Bipolar electrocautery?

- A:-Energy flow is between 2 electrodes
- B:-No current flows through the patients body
- C:-Can be used for cutting
- D:-Energy is localised more precisely

Correct Answer:- Option-C

Question32:-Which laser medium is less likely to produce retinal damage?

- A:-CO<sub>2</sub>
- B:-Nd-YAG

C:-Argon

D:-KTP

Correct Answer:- Option-A

Question33:-Which of the following is most commonly involved in OT room fire?

A:-Lasers

B:-Defibrillators

C:-Electrocautery

D:-Fiberoptic illumination system

Correct Answer:- Option-C

Question34:-Most common source of vacuum in hospital is

A:-Venturi powered

B:-Pipeline system

C:-Manually powered

D:-Electrically powered

Correct Answer:- Option-B

Question35:-Pin index for Nitrogen cylinder

A:-1, 4

B:-2, 5

C:-3, 5

D:-1, 5

Correct Answer:- Option-A

Question36:-Most frequently reported malfunction of pipeline system is

A:-Excessive pressure

B:-Cross connection of gases

C:-Contamination of gases

D:-Inadequate pressure

Correct Answer:- Option-D

Question37:-The Diameter index safety system (DISS) is used for devices at pressure of \_\_\_\_\_ or less.

A:-1380 kPa

B:-1000 kPa

C:-690 kPa

D:-345 kPa

Correct Answer:- Option-A

Question38:-Which is not a disadvantage of syringe pump?

A:-Delay in starting an infusion

B:-Parameter entry errors

C:-Temporary flow increase/decrease according to the height of the pump

D:-Cannot be used to deliver small quantities of fluids or medications

Correct Answer:- Option-D

Question39:-Which is not true for CUSA (Cavitron, Ultrasound Surgical Aspirator)?

A:-Converts electrical energy to mechanical energy

B:-Produces cutting and coagulation effects

C:-Range of peak tissue temperature is 60°C – 100°C

D:-Peak tissue temperature produced is much higher compared with that produced by electrocautery

Correct Answer:- Option-D

Question40:-Radiation exposure hazards is minimised by

A:-Decreasing exposure time

B:-Increasing the distance from the source

C:-Using shields

D:-All of the above

Correct Answer:- Option-D

Question41:-Process capable of removing or destroying all viable forms of microbial life including bacterial spores.

A:-Decontamination

B:-Sanitization

C:-Sterilization

D:-Disinfection

Correct Answer:- Option-C

Question42:-Which is not true regarding formaldehyde?

A:-Toxic and flammable gas

B:-Used as disinfectant

C:-Corrosive

D:-Not inactivated by organic matters

Correct Answer:- Option-C

Question43:-Ethylene Oxide concentration commonly used in medical products

A:-450 - 750 mg/L

B:-750 - 1000 mg/L

C:-250 - 450 mg/L

D:-1000 - 1500 mg/L

Correct Answer:- Option-A



Question44:-Recommended method of sterilization for a reusable LMA

A:-Autoclaving

B:-Radiation sterilization

C:-Gas sterilization

D:-Plasma sterilization

Correct Answer:- Option-A

Question45:-Which colour bin used for segregation of sharps, soiled gloves, catheters, IV tubes and other infectious and biomedical waste products?

A:-Yellow

B:-Blue

C:-White

D:-Red

Correct Answer:- Option-D

Question46:-Advantages of EO sterilization include all except

A:-Items can be prepackaged

B:-Short processing time

C:-Used for items that heat or moisture could damage

D:-Large amount equipment can be sterilized at one time

Correct Answer:- Option-B

Question47:-Disadvantage of steam sterilization include

A:-Adequate penetration into a pack may not occur with large packs

B:-Danger to processing personnel

C:-Instrument damage

D:-All spores may not be killed

Correct Answer:- Option-C

Question48:-Hazards of glutaraldehyde exposure include all except

A:-Gastrointestinal upset

B:-Skin irritation

C:-Headache

D:-Asthma like symptoms

Correct Answer:- Option-A

Question49:-The functions of the CDC include

A:-Approving germicides

B:-Regulating germicides

C:-Testing germicides

D:-Recommending broad strategies to prevent transmission of infections in the

health care environment.

Correct Answer:- Option-D

Question50:-All of the following are Blood borne diseases except

A:-Hepatitis B

B:-Hepatitis C

C:-Tuberculosis

D:-Human immunodeficiency virus

Correct Answer:- Option-C

Question51:-The position used for anorectal procedures utilising a hypobaric local anaesthetic solution is (Jack Knife Position)

A:-Prone position

B:-Lateral position

C:-Sitting position

D:-Supine position

Correct Answer:- Option-A

Question52:-During Central Venous Cannulation (IJV) the patient is placed in Trendlenburg position

A:-For better cerebral perfusion

B:-To reduce the risk of air embolism

C:-To make the vein collapsed during cannulation

D:-To avoid internal carotid arterial cannulation

Correct Answer:- Option-B

Question53:-Which nerve is affected following improper, extreme and prolonged maintenance of Lithotomy position?

A:-Femoral Nerve

B:-Obturator Nerve

C:-Common Peroneal Nerve

D:-Lateral Femoral Cutaneous Nerve

Correct Answer:- Option-C

Question54:-Which of the following positions is not recommended in the case of a patient with moderate to severe left ventricular dysfunction while performing regional blocks

A:-Sitting

B:-Trendlenburg

C:-Lateral decubitus

D:-Beach chair position

Correct Answer:- Option-B

Question55:-Which of the following is Not a correct statement regarding axillary roll?

A:-Axillary roll is kept just caudad to axilla

B:-Axillary roll is kept to prevent air embolism

C:-Axillary roll prevents compression of axillary vessels and nerves

D:-Axillary roll ensures that the weight of thorax is born by the chest wall

Correct Answer:- Option-B

Question56:-In Reverse Trendlenburg position the following changes occur Except

A:-Shift of upper abdominal contents downwards (Caudad)

B:-Periferal pooling of blood and decreased venous return

C:-Decreased functional residual capacity

D:-When the position of head is above heart, reduced perfusion pressure to the brain

Correct Answer:- Option-C

Question57:-During initiation of Lithotomy position

A:-Right leg should be raised initially

B:-Left leg should be raised initially

C:-Both legs should be raised together

D:-Hip should be flexed first and then only knees

Correct Answer:- Option-C

Question58:-During General Anesthesia in Lateral Decubitus position, there will be

A:-Over ventilation of the dependent lung.

B:-Less pulmonary blood flow to the dependent lung.

C:-Compression of non-dependent Lung by the weight of mediastinum.

D:-Increased shunt fraction in the dependent lung.

Correct Answer:- Option-D

Question59:-Post operative visual loss is a complication of which position?

A:-Sitting position

B:-Prone position

C:-Beach chair position

D:-Lateral decubitus position

Correct Answer:- Option-B

Question60:-Lawn chair position is a variation of

A:-Supine position

B:-Sitting position

C:-Lateral decubitus position

D:-Prone position

Correct Answer:-**Question Cancelled**

Question61:-Most cardio stable intravenous induction agent

A:-Ketamine

B:-Propofol

C:-Thiopentone sodium

D:-Etomidate

Correct Answer:- Option-D

Question62:-Tec - 6 vapourisers are used for administration of which of the following inhalational agents

A:-Enflurane

B:-Desflurane

C:-Isoflurane

D:-Sevoflurane

Correct Answer:- Option-B

Question63:-Which of the following Opioid has shortest duration of action?

A:-Alfentanyl

B:-Remifentanyl

C:-Sufentanyl

D:-Fentanyl

Correct Answer:- Option-B

Question64:-Which of the following is not an alpha-2-agonist?

A:-Metaraminol

B:-Clonidine

C:-Dexmedetomidine

D:-Guanabenz

Correct Answer:- Option-A

Question65:-Eutectic Mixture of Local Anaesthetics (EMLA) is a combination of

A:-Lignocaine and Bupivacaine

B:-Lignocaine and Ropivacaine

C:-Lignocaine and Cocaine

D:-Lignocaine and Prilocaine

Correct Answer:- Option-D

Question66:-Which of the following is a non-catecholamine vasopressor?

A:-Dopamine

B:-Vasopressin

C:-Adrenaline

D:-Nor-adrenaline

Correct Answer:- Option-B

Question67:-Which of the following statement is correct regarding Sugammadex?

A:-Sugammadex reverses Rocuronium induced Neuromuscular blockade only

B:-Sugammadex reverses all non-depolarising Neuromuscular blockade

C:-Sugammadex reverses all types of Neuromuscular blockade

D:-Sugammadex reverses Rocuronium and Vecuronium induced Neuromuscular blockade

Correct Answer:- Option-D

Question68:-Which is the IV fluid causing Hyperchloraemic Metabolic Acidosis, if infused in large quantities, for replacing blood loss?

A:-Ringer Lactate

B:-Normal Saline

C:-5% Dextrose

D:-Isolyte - P

Correct Answer:- Option-B

Question69:-Adverse effects of Neostigmine include all the following Except

A:-Bradycardia

B:-Miosis

C:-Bronchoconstriction

D:-Drying of secretions

Correct Answer:- Option-D

Question70:-Levosimendan is a

A:-Calcium sensitizer

B:-Selective Beta 1 agonist

C:-Non selective sympathomimetic

D:-Selective alpha 1 agonist

Correct Answer:- Option-A

Question71:-Which of the following sites reflect the brain temperature?

A:-Nasopharynx

B:-Rectum

C:-Tympanic membrane

D:-Axilla

Correct Answer:- Option-C

Question72:-BIS values recommended for general anesthesia

A:-65-85

B:-40-65

C:-0-20

D:-80-100

Correct Answer:- Option-B

Question73:-A rapid fall in  $ETCO_2$  is indicator of :

A:-bronchospasm

B:-circuit disconnection

C:-hypotension

D:-air embolism

Correct Answer:- Option-D

Question74:-Inaccurate readings of pulse oxymetry occur in all except

A:-Sickle Cell Anemia

B:-Fetal Hemoglobinemia

C:-Met Hemoglobin

D:-Hypoxemia

Correct Answer:- Option-B

Question75:-'Curare' cleft in Capnograph shows

A:-Endotracheal tube obstruction

B:-Leak in sampling line

C:-Spontaneous breathing

D:-Rebreathing

Correct Answer:- Option-C

Question76:-Allens test is used in

A:-Pulse oxymetry

B:-Non invasive BP monitoring

C:-Temperature monitoring

D:-Invasive BP monitoring

Correct Answer:- Option-D

Question77:-Complication during central venous cannulation include all except

A:-Pneumothorax

B:-Air embolism

C:-Nerve injury

D:-Fluid overload

Correct Answer:- Option-D

Question78:-Which of the following can be sterilised by Pasteurisation?

A:-Breathing tubes

B:-Face mask and ETT

C:-Ventilator bellows

D:-All of the above

Correct Answer:- Option-D

Question79:-Phases of Autoclaving include all except -

A:-Conditioning phase

B:-Sterilisation phase

C:-Disinfection phase

D:-Exhaust phase

Correct Answer:- Option-C

Question80:-Anion gap is increased in

A:-Diabetic Ketoacidosis

B:-Lactic acidosis

C:-Chronic kidney disease

D:-All of the above

Correct Answer:- Option-D

Question81:-The primary focus in Cardiac arrest is

A:-Effective CPR

B:-Early defibrillation

C:-Drug administration

D:-Both (1) and (2)

Correct Answer:- Option-D

Question82:-Which of the following is a Shockable rhythm?

A:-Ventricular fibrillation

B:-Pulseless VT

C:-Torsades De Pointes

D:-All of the above

Correct Answer:- Option-D

Question83:-Acer that is preferred in CPR due to early access and no interference in CPR is

A:-Central

B:-Peripheral

C:-Intraosseous

D:-Endotracheal

Correct Answer:- Option-B

Question84:-79 year old is in SVT. BP is 80/50 mm Hg and complains of chest discomfort and feels like passing out. What is the next step?

- A:-Carotid massage
- B:-Synchronised Cardio Version
- C:-Amiodarone
- D:-Lignocaine

Correct Answer:- Option-B

Question85:-A 65 year old man falls from a ladder and is unresponsive. What method must be used in opening airway?

- A:-Chin lift
- B:-Jaw thrust
- C:-Head tilt and chin lift
- D:-Head tilt

Correct Answer:- Option-B

Question86:-What does AED stands for?

- A:-Automatic Energy Delivery
- B:-Automated External Device
- C:-Automated External Defibrillation
- D:-Autonomous External Defibrillation

Correct Answer:- Option-C

Question87:-2015 AHA guidelines for CPR recommended BLS sequence of steps to be

- A:-Airway, breathing, check pulse
- B:-Compression, airway, breathing
- C:-Airway, breathing, compression
- D:-Airway, check pulse, breathing

Correct Answer:- Option-B

Question88:-The proper steps in operating an AED are

A:-Power on the AED, attach electrode pads, shock the person, analyse the rhythm.

B:-Power on the AED, attach electrode pads, analyse the rhythm, shock the person.

C:-Power on AED, analyse the rhythm, attach electrode pads and shock the person.

D:-Power on AED, shock the person, attach electrode pads and analyse the rhythm.

Correct Answer:- Option-B

Question89:-Pediatric paddles can be used at what age of children?



A:-less than 12 years

B:-more than 10 years

C:-less than 5 years

D:-less than 8 years

Correct Answer:- Option-D

Question90:-In Pediatric CPR the ratio of chest compression to breaths in case of single rescuer is

A:-15 : 1

B:-15 : 2

C:-30 : 2

D:-30 : 1

Correct Answer:- Option-C

Question91:-Adverse Effects of Protamine all except

A:-Hypotension

B:-Pulmonary Hypertension

C:-Persistent Bleeding

D:-Arrhythmias

Correct Answer:- Option-D

Question92:-Adequacy of anticoagulation is achieved by Act Value

A:-300-350

B:-400-450

C:-350-400

D:-200-250

Correct Answer:- Option-B

Question93:-The area where the Anesthetic preparation done for MRI is called

A:-MR Environment

B:-MR Controlled Access Area

C:-MR Spaces

D:-MR Interventional Units

Correct Answer:- Option-B

Question94:-MRI Compatible oxygen cylinders are made up of

(i) Aluminium

(ii) Copper

(iii) Nickel

(iv) Titanium

A:-(i), (ii) and (iii)

B:-(ii), (iii) and (iv)

C:-(i), (ii) and (iv)

D:-(i), (iii) and (iv)

Correct Answer:- Option-C

Question95:-Tools in the management of difficult airway in paediatrics all except

A:-Supraglottic Airway

B:-Flexible Intubation Scope

C:-Video Laryngoscopy

D:-Awake Intubation

Correct Answer:- Option-D

Question96:-Difficult Airway by definition

A:-Three or more unsuccessful attempts by an individual skilled in airway management

B:-Four or more unsuccessful attempts by an individual skilled in airway management

C:-Four or more unsuccessful attempts by an anesthesia junior resident doctor

D:-Two or more unsuccessful attempts by an individual skilled in airway management

Correct Answer:- Option-A

Question97:-Fibreoptic Bronchoscope needs

A:-Sterilisation

B:-High level disinfection

C:-Intermediate level disinfection

D:-Low level disinfection

Correct Answer:- Option-B

Question98:-Optimal Humidity during normal respiration is achieved at the level of

A:-Trachea

B:-Carina

C:-Bronchus

D:-Alveolus

Correct Answer:- Option-B

Question99:-Record of day to day accounts of every transactions in Essential Narcotic drugs is maintained in the format of form

A:-3F

B:-3D

C:-3J

D:-3F

Correct Answer:- Option-B

Question100:-All records of END should be kept for \_\_\_\_\_ years.

A:-two

B:-three

C:-one

D:-five

Correct Answer:- Option-A