

1. Bone marrow density 2 SD below the reference level is labeled as:
2. Which of the following joint is rarely involved in SLE?
3. The term "Large vessels" in large vessel vasculitis indicates:
4. The most commonly used drug in sarcoidosis is:
5. A 45 years old male presented with jaundice and ascites. On evaluation, his serum bilirubin was 2.1 mg/dl, serum
6. Half life of serum albumin is:
7. Which of the following micronutrient potentiates action of insulin?
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9. The score system used to estimate the risk of ischemic stroke in the first two days after
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Ref: Authors: Karen L Furie et al., Initial evaluation and management of TIA and minor ischemic stroke
The ABCD2 score can be used to estimate the risk of ischemic stroke in the first two days after TIA. The score is tallied as

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Chromium potentiates the action of insulin in patients with impaired glucose tolerance,

presumably by increasing insulin

diabetes is uncertain. In addition, improvement in

blood lipid profiles has been reported in some patients. The usefulness of chromium supplements in muscle building has

products. Chromium in the trivalent

Cr⁶⁺ is a product of stainless steel welding and is a

transient TIA is:

Ref: Authors: Karen L Furie et al., Initial evaluation and management of TIA and minor ischemic stroke

11. Which of the following electrolyte disorder causes atrioventricular block?

13. What happens to blood pressure and heart rate during recovery phase of Valsalva maneuver?

12. Which of the following is not included in family of PSVT?

AV node reentry using accessory pathway

Ref: Harrison's Principles of Internal Medicine; 20th Edition, Page No: 1733

Supraventricular tachycardia can be of brief duration, termed nonsustained, or can be sustained such that an intervention,

such as cardioversion or drug administration, is required for termination. Episodes that occur with sudden onset and

termination are referred to as paroxysmal. Paroxysmal supraventricular tachycardia (PSVT) refers to a family of

tachycardias including AV node reentry, AV reentry using an accessory pathway, and atrial tachycardia.

13. What happens to blood pressure and heart rate during recovery phase of Valsalva maneuver?

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nonsustained, or can be sustained such that an intervention, such as cardioversion or drug administration, is required for termination. Episodes that occur with sudden onset and terminate spontaneously are termed paroxysmal supraventricular tachycardia (PSVT) refers to a family of tachycardias including AV node reentry, AV reentry using an accessory pathway, and atrial tachycardia.

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14. Which of the following is not true about tetanus?

15. Adult intestinal colonization botulism is associated with

16. A 9 year boy presented with the features of truncal and limb ataxia, dysarthria, myoclonic jerks, areflexia, extensor plantar response and distal sensory deficit. He had repeated history of pneumonia and lymphadenopathy. The probable diagnosis is

17. The diagnosis of acromegaly is confirmed by

18. Differentiating the ACTH dependent Cushing's syndrome, which of the following feature is more prominently seen in

ACTH secreting pituitary tumor as compared to ectopic ACTH secretion

19. Poor host immune reaction denotes:

20. Harmonic scalpel uses which of the following to cut tissues?

21. Which of the following is a major consequence of undescended testis?

22. A 5 weeks old male child presents with vomiting . Olive felt at right upper quadrant of abdomen suggests a diagnosis

of:

23. Mucosal rectal prolapse in toddlers are treated with:

24. Which of the following is not recommended in low risk procedures in patients receiving warfarin?

25. Chloride content of Normal saline is (in mmol/L):

26. Atlantoaxial instability means abnormal movement between which of the following?

27. e in eFAST means:

25. Chloride content of Normal saline is (in mmol/L):

Ref: Bailey and Love's Short Practice of Surgery 27th Edition, Page No: 281

crystalloid and colloid solutions (mmol/L):

26. Atlantoaxial instability means abnormal movement between which of the following?

Ref: Bailey and Love's Short Practice of Surgery 27th Edition, Page No: 346

physiological movement between C1 and C2.

It can be translational or rotatory and resolves either spontaneously or with traction followed by a cervical collar.

transverse ligament rupture leading to C1/2 instability is uncommon and is treated with

Ref: Bailey and Love's Short Practice of Surgery 27th Edition, Page No: 366

Extended focused assessment with sonar for trauma

Ultrasound can be used to differentiate between contusion and the actual presence of blood.

Extended focused assessment with sonar for trauma (eFAST) is becoming the most common investigation.

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14 - The technique uses sonar assessment in the chest, looking for a cardiac tamponade or free blood and air in the

hemithorax on each side, and assessment for blood in the abdominal cavity, in the paracolic gutters,

subdiaphragmatic spaces and pelvis.

28. In triage, colour coding for urgent case is:

29. Tenosynovitis of the abductor pollicis longus (APL) and extensor pollicis brevis (EPB) is known

as :

30. Which of the following does not participate in formation of anorectal ring?

32. Which of the following is an extraintestinal manifestation of Crohn's disease related to disease activity?

33. Most common hernia in female is:

34. Superficial veins of lower limb drain into deep veins via:

35. What is the emergent management of tension pneumothorax?

36. FNAC cannot detect which of the following?

37. Which of the following is not a Spiegelberg's criterion in diagnosis of ovarian pregnancy?

38. Which of the following is a known risk factor for the development of choriocarcinoma following hydatidiform mole?

39. False knot in cord is due to:

40. If hypertension persists beyond 6 months of delivery, this is:

41. If the diagnosis of placental abruption is made only after delivery, this is:

42. Appearance of gas shadow in the chambers of the heart and great vessels is:

43. The incidence of scar rupture in hysterotomy scar is:
45. Least common type of female pelvis is:
46. Advantage of transvaginal ultrasound over trans abdominal ultrasound is all except:
47. Ovary starts to develop by:
48. Gold standard in the diagnosis of genuine stress incontinence is:
50. Which of the following is not a minimal diagnostic criterion for Kwashiorkor?
51. Megalocornea means cornea of size more than:
52. Trisomy 13 is:
55. Common length of Meckel's diverticulum is:
56. Neuroblastoma arises from:
57. Cause of Down's syndrome is:
58. Childhood tuberculosis is different from adult tuberculosis because:
59. Pneumatocele in chest X-ray is classically associated with infection of:
60. A male toddler presented with difficulty in walking. There was history of recurrent falls and fall

owing that on

examination warmth and swelling of knee joint found . Most probable diagnosis is:

61. Atticoantral chronic suppurative otitis media has:

62. In Luc abscess, pus burst into:

63. Which of the following is neonatal hearing screening procedure?

64. Taste of CSF rhinorrhea is:

65. Black line across the middle of dorsum of nose is seen in:

5. Black line across the middle of dorsum of nose is seen in:

Ref: PL Dhingra and Shruti Dhingra ENT and HNS 7th Edition, Page No: 187, 188

Nasal signs include transverse nasal crease -a black line across the middle of dorsum of nose due to constant

upward rubbing of nose simulating a salute (allergic salute), pale and oedematous nasal mucosa which may

rhinates are swollen. Thin, watery or mucoid discharge is usually present.

Ocular signs include oedema of lids, congestion and cobble-stone appearance of the conjunctiva, and dark circles

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Two important tests are to study otoacoustic emissions (OAEs) and auditory brainstem responses (ABR) .

OAEs are generated at outer hair cells and can be picked up from the external ear as the energy produced by them

ossicles tympanic membrane ear canal where it is picked

hair cells in the cochlea are nonfunctional or there is middle ear effusion or canal

4 days. They are normal even when VIIIth nerve is nonfunctional.

ABRs are generated in response to sound stimulus presented to the ear and picked up from the scalp. With a

35 dB nHL, the infant who passes the test and the hearing is considered normal. Infants who fail fluid or mixed with blood as in

1. Le Fort I (transverse) fracture runs above and parallel to the palate. It crosses lower part of nasal septum,

maxillary antra and the pterygoid plates.

2. Le Fort II (pyramidal) fracture passes through the root of nose, lacrimal bone, floor of orbit, upper part of maxillary

sinus and pterygoid plates. This fracture has some features common with the zygomatic fractures.

3. Le Fort III (craniofacial dysjunction). There is complete separation of facial bones from the cranial bones. The

fracture line passes through root of nose, ethmoidal junction, superior orbital fissure, lateral wall of orbit,

frontozygomatic and temporozygomatic sutures and the upper part of pterygoid plates.

67. Paranasal sinus of posterior group is:

68. Commonest site for osteoma in paranasal sinus is :

69. Kashima operation is:

70. Hypermotility disorder of esophagus is:

71. The cardinal signs of osteoarthritis includes all except:

72. In x-ray, how much destruction of the single cortex of a long bone warrants pathological fracture?

73. Nerve root supplying the action of toe extension is:

74. Crutch palsy is an example of:

75. UHMWPE is used for:

Ref: Apley Orthopedics; 9th Edition, Page No: 270

neurapraxia ' to describe a reversible physiological nerve conduction block in

which there is loss of some types of sensation and muscle power followed by spontaneous recovery after a few

It is due to mechanical pressure causing segmental demyelination and is seen typically in

pressure paralysis in states of drunkenness ('Saturday night palsy') and the milder types of tourniquet palsy.

QAE FALGUN 8

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It is due to mechanical pressure causing segmental demyelination and is seen typically in 'crutch palsy ',

milder types of tourniquet palsy. ONLINE PG NEPAL QAE FALGUN 8

- b. Cement
- c. Plaster
- d. Dressing

Ans: a

Ref: Apley Orthopedics; 9th Edition, Page No: 330, 331

Ultra-high molecular weight polyethylene (UHMWPE) is an inert thermoplastic polymer. Its density is close to that of the low-density polyethylenes but the very high molecular weight provides increased strength and wear resistance over other types of polyethylene.

The material is manufactured for hip (acetabular cup) and knee (tibial tray) prostheses and sterilized by gamma irradiation.

The latter process was noted to cause oxidation of the material and detrimentally alter its physical and chemical properties to the extent that a 'shelf life' for the component was created.

In joint replacement the prostheses are often fixed to the bone with acrylic cement (polymethylmethacrylate - PMMA), which acts as a grouting material. It is usually presented as a liquid (the PMMA monomer) and powder (the PMMA polymer plus copolymers or other additives), which is mixed to set off an exothermic reaction of polymerization.

76. Treatment of Gun-Stock' deformity is:

77. In intervertebral disc:

78. Clergyman's Knee is:

80. In Glasgow Coma Score, confused patient is given a verbal response score of:

81. What is the location of neurons of second order of visual sensation?

82. How does the lens utilize glucose for its metabolism?

83. Nuclear inclusion bodies are present in which type of conjunctivitis?

84. Which of the following has surface ectodermal origin?

85. What is the rotational movement around the eyes tilts towards the right known as?

86. Which organism causes ulcus serpens of cornea?

87. What is not a feature of secondary optic atrophy? ONLINE PG NEPAL

39 a. Dirty grey white appearance of fundus

b. Drusen surrounding retina

c. Peripapillary sheathing

d. Well defined margins

Ans: D, Well defined margins

Anesthesiology

88. Where is TAP block given?

89. What is false about Mallampati grading?

90. What is false about EMLA?

91. What is not an ABG finding which is an indication of mechanical ventilation?

92. What is not a cause of prolonged apnea after succinylcholine?

93. What is the pin index system for a cylinder of nitrous oxide?

94. Which of the following is present in the machine?

95. What antidepressant among the following is associated with maximum impotence?

97. What pervasive developmental disorder is also known as high functioning autism?

98. What is a person trying to kill herself but never intending to die by the act known as?

100. What is the treatment of choice in a psychologically-minded patient with narcissistic personality disorder?

101. Which of the following cannabis preparation has the highest tetrahydrocannabinol content?
103. Which of the following is associated with typical apple jelly color on diascopy?
104. What is not associated with faster rate of nail growth?
105. Contact allergy of the delayed hypersensitivity type is investigated using which of the following?
106. White dermographism is pronounced in which of the following conditions?
107. Which among the following is a type of cicatricial alopecia?
108. What disease gives row of tombstones appearance in histopathology?
109. Which of the following is the commonest location of osteosarcoma?
109. Which of the following is the commonest location of osteosarcoma?

Ref: Primer of Diagnostic Imaging, 5th edition, Page No: 311

Location of bone lesions according to anatomy:

Epiphysis: typical are cartilaginous and articular lesions such as chondroblastoma or eosinophilic granuloma (EG)

Different causes (neoplastic eg. Osteosarcoma, inflammatory, metabolic) have a predilection for the metaphysis (rich blood supply); therefore, this location alone is of limited differential diagnostic value.

Epiphyseal/metaphyseal region: giant cell tumors

The characteristic histopathologic finding in PV is a suprabasal blister with acantholysis. Just above the

cell contacts and form a blister. Often, a few

The basal cells stay attached to the basement membrane, but may lose the contact with their neighbors; as a result, they may appear to be a "row of tombstones," symbolic of the potentially fatal

the upper epidermis (from 1 or 2 cell layers above the basal cells)

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- Diaphysis: Ewing's sarcoma

110. Which of the following bone tumor mimics osteomyelitis both clinically and radiologically?

111. The best way to determine the rotation in the chest X-ray is to look for the :

112. Which of the following is a sign of pneumoperitoneum? ONLINE PG NEPAL QAE FALGUN 8

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- a. Football sign
- b. Copula sign
- c. Ligamentum teres sign
- d. All of the above

Ans d

Ref: Learning Radiology, Recognizing the basic pattern. 3rd edition, page 411

Signs seen in pneumoperitoneum:

- Football sign = large pneumoperitoneum outlining entire abdominal cavity
- Double wall sign = Rigler sign = air on both sides of bowel caused by intraluminal gas and free air outside (usually requires >1 L of free intraperitoneal gas and intraperitoneal fluid)
- Inverted V sign = outline of both lateral umbilical ligaments (containing inferior epigastric vessels)
- Urachus sign = outline of middle umbilical ligament
- Single large area of hyperlucency over the liver
- Oblique linear area of hyperlucency outlining the posteroinferior
- Outline of falciform ligament = long vertical line to the right of midline extending from ligamentum teres notch to umbilicus; most common structure outlined
- Ligamentum teres notch = inverted V-shaped area of hyperlucency along undersurface of liver
- Ligamentum teres sign = air outlining fissure of ligamentum teres hepatis along posterior free edge of falciform ligament seen as vertically oriented, sharply defined slit like/oval area of hyperlucency between 10th and 12th ribs within 2.5 to 4.0 cm of right vertebral border, 2 to 7 mm wide and 6 to 20 mm long
- Saddlebag/mustache/cupola sign = gas trapped below central tendon of diaphragm.

113. What is the shape of subdural hematoma in cross sectional imaging?

114. Which of the following does not make the right cardiac border in the Chest X-ray?

115. Interposition of the bowel, usually colon, between the inferior surface of the right hemidiaphragm and the

superior surface of the liver may be misinterpreted as a pneumoperitoneum. What is this called?

116. The radial artery lies just lateral to the tendon of which muscle?

117. Bull Rider's Thumb is sprain of: ONLINE PG NEPAL QAE FALGUN 8

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- a. Ulnar collateral ligament
- b. Radial collateral ligament
- c. Transverse collateral ligament
- d. Thenar eminence

Ans: b

Ref: Moore's Anatomy 7th Edition, Page No: 817

Bull Rider's Thumb

Bull rider's thumb refers to a sprain of the radial collateral ligament, and an avulsion fracture of the lateral part of the

proximal phalanx of the thumb. This injury is common in individuals who ride mechanical bulls.

118. Parasympathetic fibers stimulate secretion by all glands except which of the following?

119. The pleuropericardial membranes develop into what structures of the adult?

120. All of the following statements concerning the spleen are correct except:

122. A 34-year-old woman is admitted to the emergency department after a car crash. Radiographic examination reveals a whiplash injury in addition to hyperextension of her cervical spine. Which of the following ligaments will most likely be injured?

123. On digital examination of the vagina, the portion of the uterus that one anticipates palpating with the examining finger is the cervix and its external os. Which of the following is the most common position of the uterus?

124. Which is not a lateral ligament of ankle?

125. Which of the following segments of liver is supplied by right hepatic artery?

126. What is the shape of right adrenal gland?

127. What is the location of valves within the portal vein?

126. What is the shape of right adrenal gland?

Ref: Gray's Anatomy, 41st edition, page 1194

The mean maximum width of the body of the suprarenal gland is 61 mm (right) and 79 mm (left), and the mean width of each limb of the gland (medial and lateral) is approximately 30 mm. No individual suprarenal limb should measure more than 5 mm in transverse section. In adults, each suprarenal gland weighs approximately

tenth of the total weight) and has a volume of approximately 3

The glands are macroscopically slightly different in external appearance. The right is pyramidal in shape and has

extensions (limbs), giving a cross-sectional appearance similar to a three

The left gland is more semilunar in shape, flattened in the anteroposterior plane and marginally larger than the

right. The bulk of the right suprarenal sits on the apex of the right kidney and usually lies slightly higher than the

left gland, which lies on the anteromedial aspect of the upper pole of the left kidney.

127. What is the location of valves within the portal vein?

Ref: Gray's Anatomy, 41st edition, page 1167

The portal vein is formed behind the neck of the pancreas, usually from the convergence of the superior

mesenteric and splenic veins. Its origin lies in the transpyloric plane between the lower border of the body of the

first lumbar vertebra and the upper border of the body of the second lumbar.

The portal vein is approximately 8 cm long and ascends obliquely to the right behind the first part of the

duodenum, the common bile duct and gastroduodenal artery, and anterior to the inferior vena cava.

It enters the

QAE FALGUN 8

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tenth of the total weight) and has a volume of approximately 3-6 cm³.

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right border of the lesser omentum and ascends anterior to the epiploic foramen to reach the right end of the

porta hepatis, where it divides into right and left main branches, which enter the liver.

In the lesser omentum, the portal vein lies posterior to both the bile duct and the hepatic artery. It is surrounded

by the hepatic nerve plexus and accompanied by numerous lymphatics and some lymph nodes.

It is typically valveless.

Physiology

128. The number of muscle fibers innervated by a motor axon is smallest in:

129. Muller's doctrine of specific nerve energies is otherwise known as:

130. Potassium is maximum in:

131. The electrogenic Na, K ATPase plays a critical role in cellular physiology by

133. Sarcomere ends between:

134. Cardiac index is defined as:

136. Heart rate is accelerated by:

137. Meissner's plexus is located in

138. Hypertonic urine is excreted due to absorption of water in

139. Insulin resistance down regulates which receptor

140. Earliest transient change following tissue injury

141. Pain is mediated by:

The basic requirement for concentrated urine are: High level of ADH and high osmolarity of the renal medullary

interstitial fluid which provides the osmotic gradient necessary for water reabsorption to occur in the presence of

139. Insulin resistance down regulates which receptor

Ref: Ganong physiology 25th Edition, Page No: 433

GLUT. Other GLUTs are not insulin sensitive and are constitutively expressed in the cell membrane. Thus GLUT 4 is downregulated in case of insulin resistance.

140. Earliest transient change following tissue injury will be:

Ref: Robbins Basic Pathology 10th Edition, Page No: 65

The nature of the leukocyte infiltrate varies with the age of the inflammatory response and the type of stimulus.

142. Which of the following is not a component of Virchow triad?

143. Amyloid precursor protein is associated with:

142. Which of the following is not a component of Virchow triad?

Edition, Page No: 106

The primary abnormalities that lead to intravascular thrombosis are (1) endothelial injury, (2) stasis or turbulent blood flow, and (3) hypercoagulability of the blood (the so-called "Virchow triad")

145. 'Popcorn cells' are seen in which type of Hodgkin's disease?

146. Emphysema seen in α -1-anti-trypsin deficiency is:

147. Sturge Weber syndrome is associated with:

148. Sequestered lobe of lung is commonly supplied by which of the following vessels?

149. Gene for Wilms' tumour is located on which of the following?

150. Cholinesterase reactivators is/are:

151. Non - nucleoside reverse transcriptase inhibitors (NNRTIs) include all of the following except:

152. Vasoselective drugs is/are:

153. Which is not an alkylating agent?

Ref: KDT Pharmacology 7th Edition, Page No: 117 -118

This newer antimuscarinic has high affinity for receptors in urinary bladder and salivary

154. Mechanism of action of docusate:

1. Bulk forming: Dietary fibre: Bran, Psyllium (Plantago) Ispaghula, And Methylcellulose

2. Stool softener: Docusates (DOSS), Liquid paraffin

3. Stimulant purgatives

(a) Diphenyl methanes

- Phenolphthalein,

- Bisacodyl,

- Sodium picosulfate

(b) Anthraquinones (Emodins) ONLINE PG NEPAL QAE FALGUN 8

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- Senna, Cascara sagrada

(c) 5-HT₄ agonist

- Prucalopride

(d) Fixed oil

- Castor oil

4. Osmotic purgatives

Magnesium salts: sulfate, hydroxide

Sodium salts: sulfate, phosphate Sod. pot. tartrate

Lactulose

155. Which Of the following is not adverse effect of imatinib?

156. Patient on treatment on carbidopa + levodopa for 10 years now has wearing off effect. What should be added to

restore action:

157. True about imipenem is:

1. Suppresses hepatic gluconeogenesis and glucose output from liver.
2. Enhances insulin-mediated glucose uptake and disposal in skeletal muscle and fat. Insulin resistance exhibited by type-2 diabetics is thus overcome.
3. Interferes with mitochondrial respiratory chain and promotes peripheral glucose utilization through anaerobic glycolysis.

Pioglitazone -This class of oral antidiabetic drugs are selective agonists for the nuclear Peroxisome proliferator-activated

receptor (PPAR) which is expressed mainly in fat cells, but also in muscle and some other cells. It enhances the

transcription of several insulin responsive genes. Glitazones tend to reverse insulin resistance by enhancing GLUT4

expression and translocation. Entry of glucose into muscle and fat is improved. Hepatic gluconeogenesis is also suppressed. Activation of genes regulating fatty acid metabolism and lipogenesis in adipose tissue contributes to the insulin sensitizing action.

Acarbose -It is a complex Oligosaccharide Which reversibly inhibits α -glucosidases, the final enzymes for the digestion of carbohydrates in the brush border of small intestine mucosa. It slows down and decreases digestion and absorption of polysaccharides (starch, etc.) and sucrose.

159. Zileuton a 5 lipoxygenase inhibitor acts by which of following mechanism:

161. Which of the following cell types are stable cell?

162. All of the following are true about Menkes disease except:

163. Porphyria cutanea tarda is due to deficiency of which enzyme:

164. Insulin-dependent transport system occurs in:

1. Insulin-independent transport system of glucose : This is a carrier mediated uptake of glucose which is not dependent on the hormone insulin. This is operative in hepatocytes , erythrocytes and brain.

2. Insulin-dependent transport system : This occurs in muscle and adipose tissue.

165. Enzymatic marker of plasma membrane is:

166. Total no of dehydrogenase in Krebs's cycle:

167. Which complex of electron transport chain is inhibited by cyanide:

168. Ingestion of eggs from the dog roundworm(*Toxocara canis*) and raccoon roundworm (*Baylisascaris procyonis*) can lead to:

169. Pharyngoconjunctival Fever is caused by:

170. Which of the following parasite doesn't enter into body by skin penetration?

171. Which of the following is dimorphic fungus?

172. *Treponema* is most difficult to isolate from:

174. All of the following are true about *Trichomonas vaginalis* except:

175. COVID-19 is caused by:

176. 'Clean care is safer care' guideline given by WHO is for

177. Panel discussion can be defined as:

178. Outdated cytotoxic drugs are best disposed by:

179. Disease is due to social strain caused by social demands is:

180. Fermentation of pulses increases following except:

182. Approach to medical practice intended to optimize decision well-conducted research conclusion is:

181. Lowest protein content is present in which milk?

184. Which of the following denotes measures of variability?

185. In a study first schools are sampled, then sections, and finally students. This type of sampling is known as:

186. Palato-print is commonly taken from which part of palate:

187. A 4th year medical student got accidental needlestick injury. Later on investigation the patient was found to be HIV positive. Transmission rate of HIV in such case is:

188. Lichtenberg flowers are seen in:

189. Definite diagnosis of pregnancy include all, except:

190. Universal antidote contains the following, except:

191. For an informed consent to be valid, the patient has to be given:

192. MD/MS resident can do:

193. A medical doctor should follow which of the following while exercising organ transplantation?

194. Which of the following is correct recommendation when you choose to wear a mask?

195. What makes items as safe to handle is:

196. Best disinfectant for endoscopes is:

197. You are in your OPD. A top level bureaucrat is very angry outside, because he has been in queue with the general public. He has sent messages many times to check him in priority. What will you do?

198. Bag-valve-mask is

199. Hands-only CPR consists:

200. Your consultant is about to close the abdomen after a very long emergency laparotomy. He is a formidable personality and earlier told you to stop talking so that he could concentrate on finishing the operation. Although you have not been paying full attention, you think that a swab might have been left behind but are far from

m certain. What
will you do?