

AUM

PROVISIONAL ANSWER KEY (CBRT)

Name of the post	Professor, Burns and Plastic Surgery ,General State Service, Class-1
Advertisement No.	132/2020-21
Preliminary Test held on	13-07-2021
Question No.	001 - 200 (Concern Subject)
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THE LINK FOR ONLINE OBJECTION SYSTEM WILL START FROM 15-07-2021; 12:00 PM ONWARDS	

Instructions / સૂચન

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

- (1) All the suggestion should be submitted through **ONLINE OBJECTION SUBMISSION SYSTEM** only. Physical submission of suggestions will not be considered.
- (2) Question wise suggestion to be submitted in the prescribed format (proforma) published on the website / online objection submission system.
- (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 / online objection submission system. 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 should be made on separate sheet. Objection for more than one question in single sheet shall not be considered.

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

- (1) ઉમેદવારે વાંધા-સૂચનો ફક્ત ઓનલાઇન ઓબ્જેક્શન સબમીશન સીસ્ટમ દ્વારા જ સબમીટ કરવાના રહેશે. રૂબરૂ અથવા ટપાલ દ્વારા આયોગની કચેરીએ મોકલવા આવેલ વાંધા-સૂચનો ધ્યાને લેવામા આવશે નહીં જેની ખાસ નોંધ લેવી.
- (2) ઉમેદવારે વાંધા-સૂચનો રજૂ કરવા વેબસાઇટ / ઓનલાઇન ઓબ્જેક્શન સબમીશન સીસ્ટમ પર પ્રસિધ્ધ થયેલ નિયત નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ કરતા તમામ વાંધા-સૂચનો વેબસાઇટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી (માસ્ટર પ્રશ્નપત્ર)ના પ્રશ્ન ક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (4) માસ્ટર પ્રશ્નપત્રમાં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા-સૂચનો ધ્યાને લેવામાં આવશે નહીં.
- (5) ઉમેદવારે 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 ઉત્તરવહીનો જવાબ ભિન્ન હશે તો ઉમેદવારે રજૂ કરેલ વાંધા-સૂચનો ધ્યાનમા લેવાશે નહીં.
- (6) એક પ્રશ્ન માટે એક જ વાંધા-સૂચન પત્રક વાપરવું. એક જ વાંધા-સૂચનો પત્રકમાં એકથી વધારે પ્રશ્નોની રજૂઆત કરેલ હશે તો તે અંગેના વાંધા-સૂચનો ધ્યાને લેવાશે નહીં.

Website link for online objection submission system : http://150.129.165.5/GPSC_Suggestion/

001. The first purely aesthetic procedure performed in 1881 by the New York surgeon Edward Ely was:
- (A) Correction of prominent ears
 (B) Reduction of bulbous nose
 (C) Nasal hump removal
 (D) Alar base excision, to lower an over projected nose
002. According to ASA physical status classification to assess risk in the surgical patient; patient with severe systemic disease is:
- (A) ASA II (B) ASA III
 (C) ASA IV (D) ASAV
003. Short-acting drug that provides a rapid dissociative anesthesia:
- (A) Midazolam (B) Propofol
 (C) Ketamine (D) Diazepam
004. Dressing material with these properties:- absorbs fluid; necrotic tissue autolysis Little adherence; occlusive.
- (A) Alginate (B) Hydrogel
 (C) Hydrocolloid (D) Foam
005. Autologous keratinocytes on murine feder cells are commercially available as:
- (A) Biobrane (B) Epicel
 (C) Apligraf (D) Orcel
006. In most biofilms, the microorganisms account for.
- (A) Less than 10 % of the dry mass (B) 20% of the dry mass
 (C) 30 % of the dry mass (D) 40 % of the dry mass
007. Keratinocyte function that is the most limiting factor in wound re-epithelialisation is.
- (A) migration (B) proliferation
 (C) differentiation (D) maturation
008. Characteristics of the healthy granulation tissue are the following except:
- (A) soft to touch (B) moist
 (C) granular in appearance (D) dark red
009. Compared with postnatal wounds, the rate of repair for wounds of equal size in the fetus is:
- (A) equal (B) faster
 (C) slower (D) variable
010. The first successful kidney transplant performed from one twin to another was done by Dr. Joseph Murray; who was a
- (A) General Surgeon (B) Plastic Surgeon
 (C) Urologist (D) Vascular Surgeon
011. Plastic Surgeon to be awarded the Nobel Prize in Physiology or Medicine in 1990 for his contribution to the science of transplantation:
- (A) Joseph Murray (B) Paul Tessier
 (C) Harold Gilles (D) Archibald McIndoe

012. Four-flap Z-plasty was originally presented by:
(A) Mustarde (B) Woolf
(C) Broadbent (D) Limberg
013. Secretion of eccrine sweat glands mainly by emotional stimulus is in the following regions except:
(A) Face (B) Axilla
(C) Palms (D) Feet
014. In relation to haversian canals of bone, the volkman's canal run
(A) Perpendicular (B) Parallel
(C) Radial (D) Variable
015. Bone cell type derived from hematopoietic stem cells:
(A) Osteoblasts (B) Osteoclasts
(C) Osteocytes (D) Osteoblasts & osteocytes
016. Directly acting growth factor of angiogenesis within developing and healing bone is:
(A) BMP (B) TGF-B
(C) PDGF (D) VEGF
017. Cancellous bone graft is more quickly incorporated and revascularised than cortical bone graft, usually within:
(A) one week (B) two weeks
(C) three weeks (D) four weeks
018. Muscle supplied with multiple branches from the same nerve trunk is:
(A) Type I (B) Type II
(C) Type III (D) Type IV
019. According to Mathes and Nahai classification of muscles based on its vascular pedicle; the Sartorius muscle is:
(A) Type I (B) Type II
(C) Type III (D) Type IV
020. According to Cormack and Lamberty classification of fasciocutaneous flaps based on vascular anatomy; flap that has a single fasciocutaneous perforator, which is of moderate size and is fairly consistent is:
(A) Type A (B) Type B
(C) Type C (D) Type D
021. For the purposes flap transposition or microvascular tissue transplantation, the omentum according to the circulation pattern of muscle classification system falls into:
(A) Type I (B) Type II
(C) Type III (D) Type IV
022. All of the following are topical antispasmodic drugs used in clinical microsurgery except:
(A) Lidocaine (B) Papaverine
(C) Heparin (D) Nifedipine
023. The first antibody formed after explosive to common microbial antigens:
(A) IgG (B) IgA
(C) IgM (D) IgD

024. For skin rejuvenation, which of the following is popularly known as “the Lunchtime peel”.
- (A) Lactic acid (B) Salicylic acid
(C) Glycolic acid (D) Glycerol
025. Dose of intralesional triamcinolone for small, well localized infantile haemangioma is:
- (A) 1 mg/Kg (B) 3 mg/Kg
(C) 5 mg/Kg (D) 6 mg/Kg
026. According to the World Health Organisation morbid obesity is defined as a BMI between:
- (A) 25.0-29.9 (B) 30.0-34.9
(C) 35.0-39.9 (D) 40.0-49.9
027. Lateral brow approach for the reduction of zygomatic fracture was given by:
- (A) Gilles (B) Lothrop
(C) Rinehart (D) Dingman
028. The most common type of conjoined twins is:
- (A) thoracopagus (B) omphalopagus
(C) pyopagus (D) craniopagus
029. To successfully reduce intraocular pressure to normal in orbit compartment syndrome; following procedure is required.
- (A) Release of orbital septum
(B) Transaction of levator papabrae superioris muscle
(C) Medial canthotomy
(D) Lateral canthotomy
030. Percentage increase in metabolic rate in 40 % body surface area burns is:
- (A) 30% (B) 50%
(C) 75% (D) 100%
031. Which of the following is not a permanent skin substitute:
- (A) Apligraf (B) Orcel
(C) Epicel (D) Suprathel
032. Following high-voltage electrical burns the first sign of myoglobinuria is the colour of the urine which is.
- (A) dark pink (B) dark red
(C) brown (D) black
033. During burns management, wrist should be immobilized and maintained in the position:
- (A) neutral (B) 30° extension
(C) 60° extension (D) 30° flexion
034. Following burns, immature scars that have a particularly strong vascular component can be treated with following Laser:
- (A) Nd: YAG 1064 (B) IPL
(C) Fractional Laser-ablative (D) Fractional Laser-nonablative
035. Of the following, cell type most sensitive to freezing injury is:
- (A) skin (B) fat
(C) cartilage (D) connective tissue

058. What is the proper degree of splintage to the shoulder, elbow, and hand after a burned upper extremity injury?
- (A) 120°; 120°; extrinsic plus **(B)** 90°; 180°; intrinsic plus
 (C) 45°; 90°; intrinsic plus (D) 90°; 90°; intrinsic plus
059. Which flap is ideal to improve a post-burn webspace contracture of hand?
- (A) Z-plasty **(B)** Five-flap jumping man flap
 (C) Kite flap (D) Littler flap
060. Failure of fusion of which of the following structures gives rise to a cleft lip?
- (A) Frontonasal prominence and lateral nasal prominence
(B) Medial nasal prominence and maxillary prominence
 (C) Medial nasal prominence and lateral nasal prominence
 (D) Maxillary prominence and mandibular prominence
061. What are the chances of CL/P in the sibling if one child and a parent have CL/P?
- (A) 50% (B) 4%
 (C) 9% **(D)** 17%
062. Left sided coronal craniosynostosis is not characterized by which of the following?
- (A) Left sided nasal radix deviation (B) Right sided chin point deviation
 (C) Left sided brow elevation **(D)** Left sided fore head bossing
063. Which craniosynostosis syndrome is least associated with limb anomalies?
- (A) Aperts **(B)** Crouzon
 (C) Muenke (D) Pfeiffer
064. Among the following most common craniofacial cleft is?
- (A) no 2 cleft (B) no 15 cleft
(C) no 7 cleft (D) no 11 cleft
065. All the following statement regarding parry-Romberg syndrome are true except:-
- (A) Patients require multiple surgeries **(B)** Generalised fat atrophy
 (C) Burnout may be seen after puberty (D) Hyperpigmentation is associated
066. For exploration of zygomatic arch fractures which of the following incisions is used?
- (A) Risdon incision (B) Upper buccal sulcus incision
 (C) Infraorbital incision **(D)** Gillies incision
067. The strongest bone of the facial skeleton is
- (A)** frontal bone (B) mandible
 (C) nasal bone (D) maxilla
068. Which of the following statement is false
- (A) Fractures of the zygomaticomaxillary complex are also referred to as tripod fractures
 (B) Orbital fractures should be suspected with any substantial blunt trauma to the face
(C) Diplopia is not the primary surgical indication in orbital floor fractures
 (D) Facial CT is the only method of ensuring accurate diagnosis of facial fractures

069. Which statement is wrong regarding nasal bone fracture
- (A) The nasal bones are the most commonly fractured facial bones
 (B) Closed nasal reduction under general anesthesia has shown to have superior outcomes to that under local anesthetic
 (C) The nasal bones and septum can be reduced under local anesthesia
 (D) The nasal dorsum should be stabilized with an external thermoplastic splint
070. A transverse fracture of the maxilla above the upper surface of the teeth is labeled as
- (A) Le fort 1 (B) Le fort 2
 (C) Le fort 3 (D) Le fort 4
071. Which one of the following portion of mandible shows highest incidence of fractures?
- (A) condylar (B) neck
 (C) angle (D) body
072. What are the number of aesthetic subunits that comprise the surface anatomy of nose?
- (A) Six (B) Seven
 (C) Eight (D) Nine
073. For nasal tip reconstruction, which of the following is the best option?
- (A) STSG (B) FTSG
 (C) Bilobed flap (D) Forehead flap
074. A 59 Years old women comes back to the office for follow up 3 months after surgery. She is pleased with the aesthetic results but refers complete numbness of the left earlobe. Which nerve was most likely injured during the surgical procedure?
- (A) Posterior auricular nerve (B) Spinal accessory nerve
 (C) Cervical branch of the facial nerve (D) Great auricular nerve
075. Which operative technique is used to set back the prominence in middle third of the ear
- (A) Cartilage graft (B) Cartilage excision
 (C) Mustarde sutures (D) Postauricular flap
076. Inadequate re-approximation of the mentalis muscle following genioplasty surgery can lead to what deformity?
- (A) Inability to depress oral commissure. (B) Inability to pucker lips
 (C) Witch's chin abnormality (D) Decreased ability to suck from a straw
077. According to Bakers classification system for capsular contracture, firm distorted painful condition is seen in which grade?
- (A) 1 (B) 2
 (C) 3 (D) 4
078. Which one of the following syndromes is associated with gynaecomastia?
- (A) Turner syndrome (B) Klinefelter's syndrome
 (C) Down syndrome (D) Aperfs syndrome
079. According to Simon's gyncomastia classification system, moderate breast enlargement without skin excess is seen in which grade?
- (A) 1 (B) 2a
 (C) 2b (D) 3

080. Keystone flap are generally designed as:
 (A) Parallelogram (B) Triangle
 (C) Trapezoid (D) Rhombus
081. Body dysmorphic disorder (BDD) is characterized as
 (A) preoccupationai mind
 (B) nonobservable defect in appearance
 (C) associated with obsessive thinking and compulsive behaviors
 (D) does not leads to a disruption in the activities of daily life.
082. Which statement is correct about meta-analysis
 (A) It is summation of multiple qualitative studies in order to increase sample size
 (B) It has no disadvantages
 (C) It allows researchers to reach a less reliable conclusions
 (D) A meta-analysis is conducted using low level of evidence
083. In Z-Plasty 120 percent theoretical gain in length is achieved with angles of
 (A) 45-45 (B) 60-60
 (C) 75-75 (D) 90-90
084. Musculocutaneous flap was described by
 (A) Orticochea (B) McGregor and Jackson
 (C) Taylor and palmer (D) Mathes and Nahai
085. “Key stone flap” was first described by
 (A) Ponten (B) Gilies
 (C) Stark (D) Behan
086. Augmentation of either inflow or outflow of flap by anastomosing with distant unrelated vascular supply in addition to original vascular source is called as
 (A) Supercharging (B) Turbocharging
 (C) Dual charging (D) Chimeric charging
087. Venous flap was first described by
 (A) Nakajima (B) Nakayama
 (C) Nakashira (D) Nagafusa
088. Surgical flap delay with division of selected pedicle to the flap is called as
 (A) Standard delay (B) Strategic delay
 (C) Pedicle delay (D) None of the above
089. Introduction of new vascular pedicle in the tissue of planned flap before transfer is called as
 (A) Prelamination (B) Prefabrication
 (C) Flap training (D) Supercharging
090. The term “Conjoined flaps” is defined as
 (A) Flap having multiple tissue components with solitary vascularization.
 (B) Flap with atleast two anatomically distinct vascular territories, each retaining their independent vascular supply but joined by means of some common physical boundary
 (C) Flap with atleast two anatomically distinct vascular territories, each retaining their independent vascular supply without any common physical boundary
 (D) None of the above

091. The term “Chimeric flaps” is defined as
- (A) Flap having multiple tissue components with solitary vascularization.
 - (B) Flaps with atleast two anatomically distinct vascular territories, each retaining their independent vascular supply but joined by means of some common physical boundary
 - (C) Flaps with atleast two anatomically distinct vascular territories without any common physical boundary, each retaining their independent vascular supply which ultimately arises from single larger source vessel
 - (D) None of the above
092. Following Angiosome concept, how many territories can be included within flap to ensure adequate vascularization of flap?
- (A) One adjacent territory
 - (B) Two adjacent territory
 - (C) Two and half adjacent territory
 - (D) Three adjacent territory
093. The term “delayed transfer” is coined by
- (A) Tagliacozzi
 - (B) Blair
 - (C) Milton
 - (D) Ponten
094. According to Baumann Skin Typing System (BSTS), how many types of skin are there?
- (A) 14
 - (C) 16
 - (B) 15
 - (D) 17
095. How many concentric layers of the face are there?
- (A) Two
 - (B) Five
 - (C) Four
 - (D) Three
096. Which of the following techniques of facelift has the highest rate of facial nerve damage?
- (A) Subcutaneous plane.
 - (B) Deep plane.
 - (C) Minimal access cranial suspension (MACS) lift.
 - (D) Sub-superficial musculo- aponeurotic system (SMAS).
097. Which of the following subcutaneous infiltration techniques used in a patient undergoing suction lipectomy has an infiltrate-to-aspirate ratio 1:1?
- (A) Dry
 - (B) Superwet
 - (C) Tumescent
 - (D) Wet
098. Bilateral cleft lip presents as bilateral symmetrical incomplete in
- (A) 25%
 - (B) 50%
 - (C) 75%
 - (D) 90%
099. Cleft palate without associated cleft lip is associated with syndrome in
- (A) 30% of cases
 - (C) 50% of cases
 - (B) 40% of cases
 - (D) 60% of cases
100. According to Pittsburgh cleft palate fistula classification, type II fistula is located at
- (A) Soft palate
 - (B) Soft hard palate junction
 - (C) Hard Palate
 - (D) Incisive foramen
101. Cranial to facial ratio in a child at birth is
- (A) 2:1
 - (B) 4:1
 - (C) 6:1
 - (D) 8:1

102. Who developed a classification for rare craniofacial clefts
 (A) Veau (B) Kernhan
 (C) Millard (D) Tessier
103. What type of Muscle is Sartorius according to Mathes-Nahai Classification?
 (A) Type 2 (B) Type 3
 (C) Type 4 (D) Type 5
104. Which of the following is a muscle of 4th layer of foot?
 (A) Lumbricals (B) Adductor Hallucis
 (C) Flexor Hallucis Longus (D) Interossei
105. A 25-Year old male presents with a Gustilo-Anderson IIIB tibia fracture after a motor cycle crash. Which of the following descriptions matches this classification?
 (A) Fracture of distal third of tibia with extensive tissue loss and pale foot
 (B) Fracture of middle third of tibia with extensive tissue loss requiring flap cover
 (C) Fracture of middle third of tibia with 1 cm anterior laceration requiring compartment release intraoperatively
 (D) Posterolateral ankle fracture dislocation with 8 cm laceration on medial side of ankle, with no tissue loss.
106. All of the following are major criteria for Fat embolism except:-
 (A) Oliguria (B) Deteriorating mental status
 (C) Progressive respiratory insufficiency (D) Petechial rash
107. A 30 Year old man with progressive painless swelling in his right lower limb and scrotum for past 1 year, with no history of DVT of injury comes to you. What is the investigation of choice?
 (A) Lymphangiography (B) Lymphoscintigraphy
 (C) MRI (D) CT
108. What is the physiological procedure for lymphoedema
 (A) Lymphatic-Lymphatic bypass (B) Lymph node excision
 (C) Excision and grafting (D) Buried dermal flap
109. The supermicrosurgery technique is defined as microsurgical anastomosis of vessels, with a diameter 7
 (A) <0.8 mm (B) 1-2 mm
 (C) 2-3 mm (D) 2-4 mm
110. Which resuscitation formula gives equal amount of electrolyte and colloid in burn patients?
 (A) Parkland (B) Evans
 (C) Brooke's (D) Modified brook's
111. Which one of the following is false regards to silicone?
 (A) Silicone is a polymer of dimethylsiloxane.
 (B) Short polymer chains form a viscous liquid.
 (C) The physical properties of silicones are not quite variable.
 (D) The cohesive gel implant is considered to be "form stable."

112. Suggested 'Ideal' breast measurements in the context of inferior pedicle breast reduction surgery do not include:
- (A) Sternal notch to nipple distance of 21 cm.
 - (B) inter-nipple distance 21 cm.
 - (C) The nipple to inframammary fold distance of 3.4 cm.
 - (D) Areolar diameter 4 cm.
113. Which of the following is true of breast implants?
- (A) Saline implants have a lower capsular contracture rate than silicone.
 - (B) Silicone implants have a higher deflation rate than saline.
 - (C) Textured implant have a higher capsular contracture rate than smooth.
 - (D) Subglandular placement has a lower capsular contracture rate than submuscular.
114. What is the anatomical orientation of digital nerve and artery in the finger?
- (A) Nerve is volar to artery
 - (B) Nerve is dorsal to artery
 - (C) At proximal phalanx level, nerve is volar to artery and at distal phalanx level, nerve is dorsal to artery
 - (D) At proximal phalanx level, nerve is dorsal to artery and at distal phalanx level, nerve is volar to artery
115. Which statement is true for lumbrical muscle
- (A) It has no attachment to bone.
 - (B) It extends the MCP joint.
 - (C) It flexes the PIP joint.
 - (D) It is an adductor of the digit.
116. Following are clinical signs and tests for ulnar nerve function except-
- (A) Jeanne's sign
 - (B) Phalen's test
 - (C) Ferment's test
 - (D) Wartenberg sign
117. All of the following are absolute fracture fragments rigid fixation method except
- (A) Lag screws
 - (B) Compression plates
 - (C) Tension bands
 - (D) Bridge plating
118. In a Bennett's fracture, which tendon causes proximal migration of the thumb metacarpal?
- (A) APL
 - (B) EPB
 - (C) EPL
 - (D) FPB
119. Which amongst the following structure pass through the carpal tunnel?
- (A) Tendon of flexor carpi radialis
 - (B) Median nerve
 - (C) Ulnar nerve
 - (D) Tendon of flexor carpi ulnaris
120. In isolated syndactyly, the most commonly affected location is
- (A) First web space
 - (B) Second web space
 - (C) Third web space
 - (D) Fourth web space
121. The first digital replantation was done by:
- (A) Drs. Komatsu and Tamai in Japan.
 - (B) Malt and McKhann in Boston
 - (C) Chen and colleagues in Shanghai, China
 - (D) Subramania Iyer in India

122. What are classic features associated with glomus tumor?
- (A) Severe pain, cold sensitivity, and tenderness
 (B) Numbness, cold insensitivity, and severe pain
 (C) Tenderness, hot sensitivity, and numbness
 (D) Bluish discoloration digit, cold insensitivity, and severe pain
123. 31 Years old male patient came with 3 year old history of chronic osteomyelitis, debridement was done for osteomyelitis and after debridement defect was 4 cm. Surgeon decided to put bone graft in this case. Following are the main tenets of bone grafting except?
- (A) Adequate blood supply to recipient site
 (B) Establishment of bone to bone contact
 (C) Absence of infection
 (D) Mobilize the patient immediately after bone grafting
124. 20 years old male came to OPD with Lobule type of microtia. Patient was posted for total ear reconstruction. Which cartilage is most commonly used for total ear reconstruction?
- (A) Septal Cartilage (B) Opposite normal ear conchal cartilage
 (C) Coastal cartilage (D) Knee cartilage
125. How much maximum length of vascularised bone graft can be harvested from fibula?
- (A) Up to 16 cm (B) Up to 20 cm
 (C) Up to 26 cm (D) Up to 30 cm
126. 50 years old male patient came to plastic surgery OPD with wound over right leg with exposed tibia and posted for surgery debridement and flap cover. Intraoperatively, exposed dead bone was debrided till pinpoint bleeding was seen. This presence pinpoint bleeding after dead bone removal is called as
- (A) Capanna sign (B) Ilizarov sign
 (C) Paprika sign (D) Taylor sign
127. 20 Years old female patient came to emergency with suicidal cut over left wrist by knife in zone V flexor region. On exploration of the wound there is discontinuity FDS, FDP of all 4 fingers, FPL, FCU, ulnar artery and ulnar nerve. The distance between the cut ends of ulnar nerve is 0.5 mm. How will you manage this patient?
- (A) Tendon repair and artery repair with direct end to end primary repair of Ulnar nerve
 (B) Tendon repair and artery repair with immediate Sural nerve cable grafting of Ulnar nerve
 (C) Tendon repair and artery repair with secondary repair of ulnar nerve
 (D) Tendon repair and artery repair with delayed repair of ulnar nerve
128. After nerve injury in forearm when patient is asked to hold a piece of paper between thumb and index finger, there is flexion at IP joint of affected thumb. What is this sign known as?
- (A) Jeanne's test (B) Froment's test
 (C) Wartenberg sign (D) Andre-Thomas sign
129. 30 years old male patient came with history of glass cut injury over ventromedial aspect of left forearm 3 months back with suspected nerve injury. On examination patient was unable to do adduction of little finger when MP, PIP, DIP joint of all fingers are in extension. This sign is called as
- (A) Duchenne's sign (B) Andre-Thomas sign
 (C) Wartenberg's sign (D) The Pitres-Testut sign

130. In ancient times Nasal reconstruction by the arm flap was done by
 (A) Tagliacozzi (B) Sushruta
 (C) Harold Gillies (D) Bernard von Langenbeck
131. Harold Gillies (1882-1960) was
 (A) Otolaryngologist (B) Orthopaedic Surgeon
 (C) Plastic Surgeon (D) Maxillofacial Surgeon
132. Granulation tissue formation occurs in which phase of wound healing
 (A) Inflammatory phase (B) Proliferative phase
 (C) Remodelling phase (D) None of the above
133. In the Vancouver Scar Scale which of the following is not a variable
 (A) Pigmentation (B) Vascularity
 (C) Pliability (D) Width
134. What is common in Hypertrophic and keloid scar
 (A) Both are fibroproliferative disorders of wound healing
 (B) Both types of scars overgrow the original wound edges.
 (C) Both types of scars are self limiting
 (D) Complete excision with primary closure results in no recurrence
135. In Z-Plasty 100 percent theoretical gain in length is achieved with angles of
 (A) 45-45 (B) 60-60
 (C) 75-75 (D) 90-90
136. All are fundamental functions of Z-plasty except
 (A) To shorten a scar (B) To break up a straight line
 (C) To move tissue from one area to another (D) To obliterate or create a web or cleft
137. One the basis of Mathes and Nahai classification which of the muscles is type IV.
 (A) Internal oblique (B) Latissimus dorsi
 (C) Sartorius (D) Tensor fascia lata
138. Which of the following is not part of reconstructive triangle
 (A) Microsurgery (B) Tissue expansion
 (C) Flap (D) Skin grafting
139. Microdermabrasion removes
 (A) Most superficial layers of stratum corneum
 (B) Whole of the stratum corneum
 (C) Stratum corneum and part of stratum lucidum
 (D) Stratum corneum with whole stratum lucidum
140. Marionette line occurs at
 (A) Dorsum or lateral aspect of nose (B) At the glabella
 (C) Lateral to lateral canthus of eye (D) At the angle of mouth
141. Regarding chemical peeling all are true except
 (A) Exfoliation refer to wound confined to epidermis only
 (B) Peel reaching the papillary dermis but not entering reticular dermis is light peel
 (C) Jessner's solution acts as protein denaturant
 (D) Selection of peeling agents should be based on mechanism of action and not on acid concentration

142. Pitanguy line is surface marking for
 (A) Buccal branch of facial nerve. (B) Zygomaticus branch of facial nerve.
 (C) Temporal branch of facial nerve. (D) Main trunk of facial nerve.
143. The Frankfort horizontal is an important radiological landmark of the face and is a line which joins which one of the following two points on the face?
 (A) Porion with subnasale (B) Nasion with orbitale
 (C) Gnathion with glabella (D) Orbitale with porion
144. Cephalometric analysis and planning is done with the help of cephalometric planes. These are based on standard cephalometric lines. All of the following are valid reference planes for cephalometric analysis except which one of the following?
 (A) Sella nasion (SN) (B) Frankfort Horizontal (FH)
 (C) Occlusal plane (OP) (D) Sella menton (SM)
145. Vertical and oblique lines in the upper part of the nose are due to which one of the following muscle?
 (A) Procerus (B) Corrugator supercilli
 (C) Nasalis (D) Levator labii superioris alaeque nasi
146. The two fat pads in the upper eyelid are separated by the:
 (A) Interpad septum (B) Superior oblique muscle
 (C) Superior rectus muscle (D) Levator muscle
147. Which option for blepharoplasty is preferred in minimal skin excess with fat herniation
 (A) Skin muscle flap technique (B) Transconjunctival technique
 (C) Skin flap technique (D) Invagination technique
148. In blepharoplasty, which method is used for fat removal only without skin excision or canthopexy
 (A) Skin muscle flap technique (B) Transconjunctival technique
 (C) Skin flap technique (D) Invagination technique
149. What is the name of the condition in which there is generalized inelastic loose skin all over the body but has normal wound healing
 (A) Ehlers-Danlos syndrome (B) Werner's syndrome
 (C) Hutchinson-Gilford syndrome (progeria) (D) Cutis laxa
150. Which of the following skin disorder is associated with severe microangiopathy; transmitted as autosomal recessive and manifest in early adult life.
 (A) Ehlers-Danlos syndrome (B) Werner's syndrome
 (C) Meretoga's syndrome (D) Pseudoxanthoma elasticum
151. The most appropriate test to compare two independent groups with non-normal numerical data is:
 (A) Wilcoxon test (B) Friedman's test
 (C) McNemar test (D) Mann-Whitney U test
152. Which of the following correctly describes the aesthetic brow position in respect of the medial end of the eyebrow? It is almost in the same vertical plane as:-
 (A) Medial canthus (B) Alar base
 (C) Philtrum (D) Angle of mouth

161. A 52-year-old man is admitted to the intensive care unit (ICU) for monitoring after debridement and anterolateral thigh free flap coverage of a traumatic lower extremity wound. He has a history of smoking and type 2 diabetes mellitus. Which of the following methods of free flap monitoring is associated with the highest salvage rate following microvascular compromises?
- (A) Clinical examination (B) Hand-held Doppler
(C) Hyperspectral imaging (D) Near-infrared spectroscopy
162. A 54-year-old man presents for elective repair of a large recurrent ventral hernia. Plastic surgery is consulted because of the loss of abdominal domain. Posterior component separation with placement of biologic mesh is planned. Above the level of the arcuate line, which of the following structures come together to form the posterior rectus sheath?
- (A) External oblique aponeurosis and internal oblique aponeurosis
(B) External oblique aponeurosis, internal oblique aponeurosis, and transverses abdominis aponeurosis
(C) Internal oblique aponeurosis and transverses abdominis aponeurosis
(D) Transversalis fascia and peritoneum
163. A 20-year-old woman presents for repair of a significant degloving injury to her dominant right thumb. During the soft-tissue repair, a 4-cm defect is noted in the radial proper digital nerve. Which of the following is the most appropriate technique for nerve repair?
- (A) Autologous nerve graft (B) Autologous vein graft
(C) Collagen conduit (D) Nerve transposition
164. A 38-year-old electrician suffers an electrical burn to the right hand. Which of the following types of tissue has the lowest inherent resistance?
- (A) Bone (B) Fat
(C) Muscle (D) Skin
165. A 20-year-old man undergoes decompressive craniectomy after a traumatic brain injury. He is now recovered from the injury. The soft tissue overlying the cranial defect is healthy and there is no communication with paranasal sinuses. Cranioplasty with an alloplastic material is planned. A material with good osteoinductive properties is desired. Which of the following is the most appropriate choice?
- (A) Hydroxyapatite (B) Polyetheretherketone
(C) Polymethylmethacrylate (D) Porous polyethylene
166. A 45-year-old woman with a history of systemic lupus erythematosus requires a free flap reconstruction of her right lower extremity. She has never had a thrombotic event. She is on corticosteroids for collagen vascular disease. Which of the following perioperative measures is not appropriate?
- (A) Intraoperative and postoperative anticoagulation
(B) Intraoperative anticoagulation alone
(C) Preoperative and postoperative aspirin therapy
(D) Preoperative hypercoagulability work up
167. A 24-year-old man presents to the emergency department after sustaining burns from workplace fire in a kitchen. He has a suspected inhalation injury. Physical examination shows partial thickness burn on the forearms and thighs, as well as on one ear. The plan is to use mafenide acetate as a topical antimicrobial dressing. Because of the suspected lung injury, mafenide should be used with caution because it places him at increased risk for which of the following?
- (A) Gray discoloration of skin (B) Hyperosmolality
(C) Metabolic acidosis (D) Methemoglobinemia

168. A 67-year-old woman with a large ventral hernia after prior exploratory laparotomy for trauma is scheduled for complex abdominal hernia repair with posterior components separation and mesh. The planned surgical techniques involves division of which of the following muscles and locations?
- (A) Transversus abdominis medial to the linea semilunaris
 - (B) External abdominal oblique medial to the linea semilunaris
 - (C) Internal abdominal oblique lateral to the linea semilunaris
 - (D) Transversus abdominis lateral to the linea semilunaris
169. A 43-year-old right-hand-dominant man presents with Volkmann flexion contractures of the right hand after sustaining a severe burn injury to the right volar forearm. Reconstruction with an innervated gracilis free myocutaneous flap is planned. During flap elevation, the vascular pedicle is identified approximately 7 cm distal to the pubic symphysis between which of the following structures?
- (A) Adductor longus and adductor magnus muscles
 - (B) Adductor magnus and vastus medialis muscles
 - (C) Sartorius and adductor longus muscles
 - (D) Semimembranosus and Sartorius muscles
170. Which of the following structures contributes to the formation of the tragus?
- (A) First branchial arch
 - (B) First branchial cleft
 - (C) Second Branchial arch
 - (D) Second Branchial cleft
171. A 35-year-old women has minimally displaced bilateral subcondylar fractures of the mandible without loss of posterior vertical height, but she reports subjective malocclusion. Which of the following is the most appropriate patient?
- (A) Advise the patient to eat a soft diet for 6 weeks
 - (B) Application of a gunning splint for 8 weeks
 - (C) Maxillomandibular fixation (MMF) for 4 to 6 weeks
 - (D) MMF for 1 week
172. A 15-year-old girl is brought to the office for follow-up evaluation 5 months after sustaining facial injuries from being bitten by a dog. She has an abnormal facial nerve examination and cannot generate a smile on the right side. Prior exploration during anesthesia showed missing segments of the facial nerve. Which of the following is the most appropriate management at this time?
- (A) Babysitter procedure
 - (B) Cross-facial nerve grafting
 - (C) Dynamic reanimation with gracilis free flap
 - (D) Interpositional nerve grafting
173. A 64-year-old man presents with biopsy-proven squamous cell carcinoma of the tongue. Excision and reconstruction, which is confirmed with non-invasive ultrasound. The plan is to proceed with an ulnar artery perforator flap from the non-dominant hand. When comparing the ulnar artery perforator flap to the radial forearm flap, which of the following is a major benefit of the ulnar artery flap?
- (A) It has a larger pedicle artery diameter
 - (B) It has a longer pedicle length
 - (C) It is a better choice to incorporate bone as an osteocutaneous flap
 - (D) It is less likely to result in tendon exposure at the donor site

181. During embryological development, which of the following structures is derived from the same pharyngeal arch as the antihelix?
- (A) Mandible (B) Maxilla
(C) Mylohyoid (D) Stapes
182. A man presents to the emergency room with a complicated mandibular third molar infection. He has limited range of motion of the jaw (trismus) and point tenderness above the zygomatic arch. The infection is most likely in which of the following anatomic spaces?
- (A) Temporal (B) Buccal
(C) Prevertebral (D) Pterygomandibular
183. A 57-year-old man undergoes resection of a malignant lesion involving the mandible. He does not smoke cigarettes. Which of the following flaps is most appropriate to use for reconstruction of the resulting mandibular defect from ramus to ramus?
- (A) Cadaveric bone graft scapular free flap
(B) Fibular free flap
(C) Lateral thigh flap with rib graft
(D) Myocutaneous pectoralis major flap with reconstructive plate
184. A 27-year-old woman presents to the office because of difficulty breathing. Medical history includes closed rhinoplasty with dorsal hump removal and septoplasty 3 years ago. Physical examination shows a narrowed mid vault with an inverted V deformity. Which of the following grafts is most likely to correct the patient's condition?
- (A) Alar batten (B) Dorsal onlay
(C) Spreader (D) Dorsal sidewall onlay
185. The inferior oblique muscle of the orbit is innervated by which of the following cranial nerves?
- (A) Oculomotor (III) (B) Trochlear (IV)
(C) Trigeminal (V) (D) Abducens (VI)
186. A 12-year-old boy with a thyroglossal duct cyst undergoes a Sistrunk procedure. Which of the following structures are resected during this procedure?
- (A) Cyst and cyst tract only
(B) Cyst, cyst tract, and middle third of the cricothyroid cartilage
(C) Cyst, cyst tract, and middle third of the hyoid bone
(D) Cyst, cyst tract, and middle third of the thyroid cartilage
187. A healthy 25-year-old man presents to the emergency department after being bitten on the left forearm by a friend's dog. The patient reports that the attack was unprovoked. The injury is washed out and sutured, the patient's tetanus status is up to date, and he is given an antibiotic (amoxicillin/clavulanate [Augmentin]). The dog is up-to-date with its rabies vaccine and in the custody of its owner. In terms of rabies precaution, which of the following is the most appropriate management?
- (A) Call local authorities and give rabies prophylaxis, as this was an unprovoked attack
(B) Call local authorities and quarantine the dog for 10 days of observation
(C) Proceed with rabies prophylaxis, as this was an unprovoked attack
(D) No further action is needed, as animal is up-to-date with the rabies vaccine

188. A 28-year-old woman comes to the office for evaluation of excessive sweating and odor. She reports that she has a long history of heavy perspiration, mainly from the axillary and groin area. Which of the following glands contributes to her excessive and malodorous sweating?
- (A) Apocrine (B) Eccrine
(C) Holocrine (D) Merocrine
189. A 5-year-old male has a cerebrospinal fluid leak and a 3 x 3-cm area of wound dehiscence involving the posterior trunk following tethered cord repair. Which of the following is the most appropriate method to reconstruct the wound?
- (A) Gluteal muscle flap and skin advancement flap
(B) Latissimus muscle turnover flap and skin advancement flap
(C) Local fascial flap and skin advancement flap
(D) Skin advancement flap
190. A 65-year-old woman comes to the office with swelling of her left upper extremity 18 months after undergoing radiation therapy to her left axilla for breast cancer. Which of the following is the most appropriate test to confirm the diagnosis of lymphedema?
- (A) CT scan (B) Lymphoscintigraphy
(C) MRI (D) Skin biopsy
191. A 42-year-old woman with a history of a cesarean delivery from a low-transverse abdominal incision is scheduled to undergo a unilateral deep inferior epigastric perforator (DIEP) flap breast reconstruction. BMI is 28kg/m² and the distance from nipple to sternal notch is 24 cm per side. This patient's history of cesarean delivery is most likely to have which of the following effects?
- (A) Decreased abdominal seroma (B) Decreased flap venous congestion
(C) Increased flap arterial thrombosis (D) Increased flap fat necrosis
192. A 51-year-old male carpenter requires a partial glossectomy for recurrent oral squamous cell carcinoma. He runs for five miles three days a week. He underwent radiation therapy two years previously. Microsurgical transfer of the following free flaps is most appropriate for reconstruction?
- (A) Deltopectoral flap (B) Rectus abdominis flap
(C) Medial Sural artery perforator flap (D) Vastus lateralis flap
193. A 9-year-old boy is undergoing cranioplasty to repair a 5 x 5-cm congenital skull defect. Which of the following is the most appropriate material; to reconstruct the cranium?
- (A) Coastal cartilage graft (B) Cranial bone graft
(C) Fibula bone graft (D) iliac bone graft
194. A 45-year-old man who is a cyclist comes to the office because of tingling of the left ring and small fingers. Normal sensation dorsally is noted. Guyon canal release is planned. Which of the following structure is a border of the Guyon canal?
- (A) Capitate (B) Dorsal distal radio-ulnar ligament
(C) Lunate (D) Pisohamate ligament

195. A 45-year-old woman who underwent Achilles tendon repair through a posterior midline incision 3 weeks ago develops a postoperative wound infection and subsequent skin necrosis. Physical examination shows a 3 x 3-cm wound directly overlying the Achilles tendon in the absence of peritenon. A fasciocutaneous propeller flap from the medial leg is designed to cover this defect. The septal perforators to this flap run between which of the following structures.
- (A) Flexor hallucis longus and gastrocnemius
 (B) Gastrocnemius and soleus
 (C) Peroneus longus and peroneus brevis
 (D) Soleus and flexor digitorum longus
196. A 23-year-old man is brought to the emergency department because of a laceration of all extensor tendons at Zone VII of the right upper extremity. Which of the following tendons has the most distal muscle belly when attempting to reapproximate the tendon ends?
- (A) Extensor carpi ulnaris (B) Extensor digitorum communis to long finger
 (C) Extensor indicis proprius (D) Extensor carpi radialis longus
197. The Jones transfer for radial nerve palsy, specifically flexor carpi ulnaris to extensor digitorum communis III-V, is most likely to have which of the following significant disadvantages?
- (A) Difficulty of dissection
 (B) Inappropriate excursion of donor tendon
 (C) Indirect line of pull requiring pulley creation
 (D) Poor synergy
198. Which of the following best describes the main difference between the Nagata and Brent techniques of ear reconstruction for microtia?
- (A) Nagata is performed at 5 years of age, while Brent is only performed around 12 years of age
 (B) Nagata is performed in two stages, while Brent is performed in three or more
 (C) Nagata uses a microvascular omental flap, while Brent only uses local tissue
 (D) Nagata uses a porous polyethylene framework, while Brent uses autologous cartilage
199. Which of the following anatomic landmarks should be used during percutaneous injection of neurotoxin to treat benign masseteric hypertrophy?
- (A) Between the earlobe-to-oral commissure line and the inferior border of the mandible
 (B) Between the maxillary and mandibular occlusal planes
 (C) Between the tragus-to-infraorbital rim line and the cervicomental line
 (D) Between the tragus-to-mid upper lip line and the root of the helix to subnasale line
200. To avoid damage to the medial antebrachial cutaneous nerve during brachioplasty, which of the following veins is most important to mark?
- (A) Axillary vein (B) Basilic vein
 (C) Brachial vein (D) Cephalic vein