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Test Booklet Series

T. B. C. : APD(OM & R) -2-18/19

**A**

## TEST BOOKLET

ASSISTANT PROFESSOR (DENTISTRY)

Oral Medicine & Radiology

Sl. No.

1048

Time Allowed : 3 Hours

Maximum Marks : 200

### : INSTRUCTIONS TO CANDIDATES :

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF THE SAME SERIES ISSUED TO YOU.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C** OR **D**, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
3. You have to enter your **Roll No.** on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
4. **YOU ARE REQUIRED TO FILL UP & DARKEN** ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. **WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.**
5. This Test Booklet contains **200** items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose **ONLY ONE** response (answer) for each item (question).
6. You have to mark (darken) all your responses (answers) **ONLY** on the **separate Answer Sheet** provided by using **BALL POINT PEN (BLUE OR BLACK)**. See instructions in the Answer Sheet.
7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. **There will be no negative marking for wrong answer.**
8. Before you proceed to mark (darken) in the Answer Sheet the responses (answers) to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your **Admission Certificate**.
9. After you have completed filling in all your responses (answers) on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the *Answer Sheet* issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the **Test Booklet**, after completion of the examination, for your reference.
10. Sheets for rough work are appended in the Test Booklet at the end.

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JM - 2A/24

Contd.

1. Selection of kilovoltage for dental film depends on :
- (A) Target-film distance  
(B) Film-object distance  
(C) Density of tissues radiographed  
(D) All of these
2. During the therapy with carbamazepine in case of trigeminal neuralgia, which of the following is indicated ?
- (A) Clinical observation only  
(B) Complete blood investigation only if adverse symptoms arise  
(C) No monitoring  
(D) Clinical observation and complete blood and platelet count prior to and at frequent intervals
3. For detection of herniation and perforation of fibrous disc of TMJ, which of the following investigation is best indicated ?
- (A) Transcranial view  
(B) CT scan  
(C) OPG  
(D) Arthrography
4. A 50-years-old female patient was reported to clinic with dry mouth for 6 months. She was hypertensive patient and was on antihypertensive drug therapy. Which of the following investigational modality would be appropriate for quantifying the salivary output ?
- (A) Sialography  
(B) Scintigraphy  
(C) MRI  
(D) CT Scan
5. Which of the following can be used as anesthetic agent for infiltration if a patient is allergic to amide and ester anesthetic derivatives ?
- (A) Nitrous oxide  
(B) Bupivacaine  
(C) Phenylephrine  
(D) Diphenhydramine

6. Patient with prosthetic valve is under surgery to avoid sub-acute endocarditis. Which regime should be given ?

(A) 2 mg amoxicillin 1 hr before surgery

(B) 2 gm amoxicillin 1 hr before surgery

(C) 500 gm amoxicillin 1 hr before surgery

(D) 1 gm amoxicillin 2 hrs before surgery

7. A 65-years-old patient reported to the OPD with sharp shooting pain lasting for 10-15 seconds in left side of face for 2 weeks. Patient gave history of self-medication with Ibruprofen and diclofenac but did not get any relief. What could be the probable diagnosis ?

(A) Chronic pulpitis

(B) Acute periodontitis

(C) Impacted molar

(D) Trigeminal neuralgia

8. A 30-years-old patient reported with weakness in right side of face for 4 days. Patient gave history of viral fever and subsequently developed weakness on right side. What could be possible line of treatment in this patient ?

(A) Vitamin B12

(B) Vitamin A

(C) Corticosteroids

(D) Anti-inflammatory drugs

9. List out the order in which the following layers are present in intensifying screen :

(i) Base

(ii) Reflecting layer

(iii) Phosphor layer

(iv) Protective layer

(A) (i), (ii), (iii), (iv)

(B) (i), (iii), (ii), (iv)

(C) (iv), (iii), (ii), (i)

(D) (iii), (ii), (iv), (i)

10. Which of the following is true about paralleling cone technique ?
- (A) The radiopacity of the zygoma is superimposed on the roots of third molar
  - (B) Easy to place with the film holder
  - (C) Less of gag reflex
  - (D) No need to sterilize the film holder
11. After developing bitewing radiograph, a dentist realizes that there is too much overlap between the contacts of adjacent teeth. This error is caused due to :
- (A) Too much vertical angulation
  - (B) Too little vertical angulation
  - (C) Incorrect horizontal angulation
  - (D) Beam not aimed properly
12. A 52-years-old male complains of ulcer on the lower lip. It has smooth raised borders with central plug of keratin with a size of 1.5 cm. Its most likely diagnosis is :
- (A) Keratinizing squamous cell carcinoma
  - (B) Keratoacanthoma
  - (C) Warty dyskeratoma
  - (D) Keratinizing squamous papillary cyst
13. Irritational fibroma will be most favored provisional diagnosis for a firm, smooth surfaced, pinkish nodule, occurring on :
- (A) Buccal mucosa along the bite line
  - (B) Vermillion border of lip
  - (C) Soft palate
  - (D) Ala of nose
14. The developmental lesion, histologically similar to giant cell fibroma, occurring on lingual gingiva of mandibular canines is called :
- (A) Procuspid papilla
  - (B) Retromandibular papilla
  - (C) Retrocuspid papilla
  - (D) Retrocuspid fibroma

15. Which of the following statement is not true ?
- (A) Chief complaint is the problem for which patient seeks help or treatment
  - (B) Chief complaint is recorded in doctor's own words
  - (C) More than one complaint is recorded chronologically
  - (D) Clinician should avoid any leading questions while taking history
16. While examining ulcer which of the following statement is true ?
- (A) Sloping-edge indicates healing ulcer
  - (B) Pearly white raised edges suggest squamous cell carcinoma
  - (C) Red granulation tissue at the floor is suggestive of infective ulcer
  - (D) Necrotic tissue at floor is suggestive of healing ulcer
17. Which of the following is true about 'phalangioma' ?
- (A) It is benign tumor
  - (B) It is tumor of blood vessels
  - (C) It is radiographic finding
  - (D) It is tumor of finger
18. Pain that is produced by a stimulus that is not normally painful is called :
- (A) Causalgia
  - (B) Neuralgia
  - (C) Allodynia
  - (D) Hypoaesthesia
19. Which among the following is correct about Linear Energy Transfer (LET) ?
- (A) Alpha particle has higher LET due to higher velocity
  - (B) Alpha particle has higher LET due to smaller mass
  - (C) Beta particle has lower LET due to higher velocity
  - (D) Beta particle has lower LET due to smaller mass

20. The ideal target material should have :
- (A) Low atomic number
  - (B) High vapour pressure
  - (C) Low melting point
  - (D) High thermal conductivity
21. Which of the following is correct ?
- (A) Actual focal spot is length and width of emitted x-ray beam
  - (B) Effective focal spot is area on the anode struck by electron
  - (C) Effective focal spot length is always smaller than actual focal spot
  - (D) Actual focal spot = effective focal spot  $\times \sin^{\theta}$  ( $\theta$  is the anode angle)
22. Which of the following is correct about auto-transformer ?
- (A) It is step up transformer
  - (B) It is step down transformer
  - (C) It is high voltage transformer
  - (D) It is both step up and step down transformer
23. Which of the following organ has lowest radiosensitivity ?
- (A) Testes
  - (B) Salivary gland
  - (C) Muscle cells
  - (D) Kidney
24. Which of the following restorative material is radiopaque ?
- (A) Zinc phosphate cement
  - (B) Porcelain
  - (C) Composite
  - (D) Calcium hydroxide
25. The most likely disease to be mistaken for multiple myeloma is :
- (A) Radiolucent metastatic carcinoma
  - (B) Letterer sieve disease of the jaw
  - (C) Multiple OKC
  - (D) Severe osteomyelitis

26. If condylar neck fracture is suspected, which view is more appropriate to supplement panoramic view ?
- (A) A. P.
  - (B) P.A.
  - (C) Lateral skull
  - (D) Lateral oblique
27. In a systematic method of radiographic examination of full mouth set of radiograph, which of the following should be examined first ?
- (A) Bite wing images
  - (B) Right mandibular images
  - (C) Dental structures
  - (D) Right maxillary images
28. Most common oral soft tissue site of metastatic tumor to the jaw :
- (A) Tongue
  - (B) Soft palate
  - (C) Gingiva
  - (D) Lip
29. Most common location for metastatic tumor to the jaw is :
- (A) Maxilla
  - (B) Mandible
  - (C) Maxillary sinus
  - (D) Palate
30. 'Swirling pattern with granular appearance' best radiographically describes :
- (A) Ameloblastoma
  - (B) Fibrous dysplasia
  - (C) Paget's disease
  - (D) Marble bone disease
31. Which of the following holds true for Ameloblastoma ?
- (A) They are predominantly malignant tumor
  - (B) They are frequently discovered during routine dental examination
  - (C) Recurrence rates are higher in younger patients
  - (D) They seldom cause root resorption

32. Which of the following lesion may displace the floor of the nasal fossa in a superior direction ?
- (A) Nasopalatine duct cyst
  - (B) Nasolabial cyst
  - (C) Globulomaxillary cyst
  - (D) Lateral periodontal cyst
33. This space infection has trismus as key presentation and deviation of jaw to the affected side :
- (A) Ludwig's angina
  - (B) Infratemporal space infection
  - (C) Lateral pharyngeal space infection
  - (D) Sub masseteric space infection
34. Patient has painful swelling in front and below the external ear. This is indicative of :
- (A) Buccal space infection
  - (B) Parotid space infection
  - (C) Sub masseteric space infection
  - (D) Peritonsillar space infection
35. The dental procedures for which antibiotic prophylaxis is not required in persons at risk for endocarditis :
- (A) Rubber dam placement
  - (B) Wedge placement
  - (C) Suture removal
  - (D) Sialography
36. Patient in whom antibiotic prophylaxis is essential have :
- (A) Prosthetic cardiac valve
  - (B) Prosthetic joint implant
  - (C) Penile prostheses
  - (D) Pacemaker
37. Optic nerve is more likely to be affected in which sinus infection :
- (A) Sphenoid
  - (B) Maxillary
  - (C) Ethmoid
  - (D) Frontal
38. Which of the following zoonotic infection is primarily granulomatous disease ?
- (A) Rabies
  - (B) Cat scratch disease
  - (C) Chagas disease
  - (D) Trichinosis

39. Which of the following statement is correct about facial palsy ?
- (A) In infranuclear lesions, whole of the face of opposite side gets paralyzed
  - (B) In supranuclear lesions, lower part of the opposite side is paralyzed
  - (C) In supranuclear lesions, frontalis and orbicularis oculi muscles gets affected
  - (D) In infranuclear lesions articulation of labials remain unaffected
40. Nerve supply to parotid gland includes :
- (A) Parasympathetic nerves which are vasomotor
  - (B) Sympathetic nerves which are secretomotor
  - (C) Parasympathetic gland reaches the gland through glossopharyngeal nerves
  - (D) Sympathetic nerves are derived from plexus around the external carotid artery
41. Schirmer's test is performed for testing :
- (A) Taste perception
  - (B) Any nutritional deficiency
  - (C) Vision
  - (D) Lacrimation
42. Which of the following statement correctly states the difference between Male and Female Skull ?
- (A) Supraorbital margins are sharper in males as compared to females
  - (B) There are no sex differences in males and females till puberty
  - (C) Forehead is vertical in males
  - (D) Mastoid processes are less marked in males
43. Which of the following area of enamel is strongest ?
- (A) Perikymata
  - (B) Enamel tufts
  - (C) Gnarled enamel
  - (D) Striae of retzius

44. Ossification of mandible starts in which of the following regions ?
- (A) Condyle
  - (B) Coronoid
  - (C) Mental foramen
  - (D) Symphysis menti
45. Selective COX-2 inhibitors differs from nonselective COX-1/COX-2 inhibitors as they :
- (A) Are anti inflammatory but not analgesics
  - (B) Do not bring down fever
  - (C) Do not have renal effects
  - (D) Do not inhibit platelet aggregation
46. In panoramic radiograph if chin is placed anterior to focal through, then how it will affect the image ?
- (A) No effect
  - (B) Image will be blurred and magnified
  - (C) Image will be blurred and diminished
  - (D) Image will be blurred and no change in dimensions
47. In which of the following plain radiograph innominate line can be seen ?
- (A) Panoramic radiograph
  - (B) Reverse townes's view
  - (C) Rhese view
  - (D) Lateral oblique view
48. Which of the following is the disadvantage of CBCT over CT scan ?
- (A) Isotropic resolution
  - (B) Multiplanar reformatting in various plans
  - (C) Poor soft tissue resolution
  - (D) Lesser dosage
49. The corresponding values to Hounsfield unit in CBCT is :
- (A) Attenuation coefficient
  - (B) Attenuation scale
  - (C) CBCT number
  - (D) Gray scale

50. Which of the following planes are primarily taken in CBCT scan ?
- (A) Transverse plane
  - (B) Sagittal plane
  - (C) Coronal plane
  - (D) None of these
51. Which of the following is true about CBCT in comparison to CT scan ?
- (A) Focal spot size of CBCT is smaller than CT scan
  - (B) Spatial resolution of CBCT is less than CT scan
  - (C) CBCT has higher amount of annual background radiation as compared to CT scan
  - (D) In CBCT voxel dimension depends upon slice thickness whereas in CT it depends on pitch
52. STL files in CBCT imaging systems stand for :
- (A) Standard template library
  - (B) Stereolithography files
  - (C) Special Text Language
  - (D) System Transmitted Language
53. Which of the following algorithm decreases artifacts ?
- (A) Back projection technique
  - (B) Modified Feld Kemp projection
  - (C) Feld Kemp projection
  - (D) Iterative reconstruction
54. Calcium tungstate screen emit :
- (A) Yellow light
  - (B) Blue light
  - (C) Green light
  - (D) Red light
55. Which of the following is non rare earth phosphor material ?
- (A) Calcium tungstate
  - (B) Gadolinium
  - (C) Lanthanum
  - (D) Yttrium
56. Which quality of CBCT leads to the image : reality ratio of 1 : 1 ?
- (A) Spatial resolution of 5lp/mm
  - (B) Isotropic Voxel resolution
  - (C) Cone shaped X-ray beam
  - (D) 360<sup>o</sup> rotation of C arm

57. Cevimeline HCl is used for the the management of which of the following conditions ?
- (A) Sialorrhea
  - (B) Sjogren's syndrome
  - (C) Mumps
  - (D) Sialolithiasis
58. A 3 cm squamous cell carcinoma of retromolar trigone and invading the mandible and the medial pterygoid muscle is at what TNM stage ?
- (A) Stage I
  - (B) Stage II
  - (C) Stage III
  - (D) Stage IV
59. Mechanism of action of povidone-iodine is :
- (A) Inhibit cell wall synthesis
  - (B) Oxidizes cellular component
  - (C) Precipitate cell proteins
  - (D) Destroys microbial protein and DNA
60. Biochemical abnormality associated with osteogenesis imperfect is increase in :
- (A) Alkaline phosphatase
  - (B) Acid phosphatase
  - (C) Bicarbonate ion
  - (D) Phosphorylase enzyme
61. Which of the following is drawback of vertex occlusal projection ?
- (A) Good contrast because of intensifying screen
  - (B) Relatively long exposure time
  - (C) Decreased radiation dosage to gonad and eye
  - (D) Clear visualization of anterior maxilla
62. Diarrhea, dementia is associated with deficiency of :
- (A) Niacin
  - (B) B6
  - (C) Riboflavin
  - (D) Thiamine

63. Which of the following statement is not true about Sjogren's syndrome ?
- (A) Patient is prone to B cell lymphoma of parotid gland
  - (B) Thin serous secretion of Stenson's duct is common finding
  - (C) Schirmer's tear test is used to assess xerophthalmia
  - (D) Antinuclear antibody may be positive
64. Prolotherapy is used in :
- (A) Disc dislocation
  - (B) Osteoarthritis
  - (C) Rheumatoid arthritis
  - (D) Fibrous ankylosis
65. In which of the following disorders a circulating antibody to inter-cellular cementing substance of stratified squamous epithelium is observed ?
- (A) Lichen planus
  - (B) Verrucous vulgaris
  - (C) Bullous pemphigoid
  - (D) Pemphigus vulgaris
66. The best laboratory test to use in diagnosis of lupus vulgaris in oral cavity is :
- (A) Bacterial smear
  - (B) Blood chemistry
  - (C) Blood studies
  - (D) Biopsy
67. A disease which only affects the formation and eruption of teeth but does not cause hypoplasia :
- (A) Hypoparathyroidism
  - (B) Hyperthyroidism
  - (C) Rickets
  - (D) Syphilis
68. For PA mandible patient positioning is :
- (A) Forehead chin position
  - (B) Forehead nose position
  - (C) Lip chin position
  - (D) Lip forehead position

69. An X-ray picture shows bone expansion with soap bubble appearance and its eccentrically ballooned. Cortical border is destroyed and periosteal reaction is evident. Probable diagnosis is :
- (A) Ameloblastoma  
 (B) Aneurysmal bone cyst  
 (C) Giant cell tumor  
 (D) Central ossifying fibroma
70. Reversal lines are the characteristics on radiograph of :
- (A) Cementoma  
 (B) Ossifying fibroma  
 (C) Paget's disease  
 (D) Osteosarcoma
71. The optical density of gross fog typically is :
- (A) 0.6-3.0  
 (B) 0.2-0.3  
 (C) 0.2-0.4  
 (D) 0.6-4.0
72. The best image obtained if duplicating films is exposed to :
- (A) X-rays  
 (B) U-V rays  
 (C) Infrared rays  
 (D) Visible light
73. If multiple myeloma is suspected in a patient's history and intraoral radiograph which of the following radiograph is taken to confirm the diagnosis ?
- (A) Lateral Skull  
 (B) Anterior posterior view  
 (C) Posterior anterior view  
 (D) Lateral Oblique
74. Mcqueen dell technique is also known as :
- (A) Trans cranial open mouth technique  
 (B) Trans cranial close mouth technique  
 (C) Trans pharyngeal technique  
 (D) Trans orbital technique
75. Which of the following scan is incorrect in USG ?
- (A) A scan  
 (B) B scan  
 (C) C scan  
 (D) M scan

76. In radiation biology, latent period represents :
- (A) Cell rest and cell mitosis
  - (B) The first and last dose of radiation
  - (C) Film exposure and image development
  - (D) Radiation exposure and onset of symptoms
77. Compared with calcium tungstate, rare earth metals decreased exposure about by :
- (A) 15%
  - (B) 35%
  - (C) 55%
  - (D) 75%
78. Which type of radiation effects results in radiation induced thyroid cancer ?
- (A) Somatic
  - (B) Genetic
  - (C) Teratogenic
  - (D) Autosomal
79. The thickness of base of IOPA X-ray film is :
- (A) 0.7 inches
  - (B) 0.07 inches
  - (C) 0.007 inches
  - (D) 0.0007 inches
80. 55 years old male presents with hemorrhagic crusting of his lips following a course of antibiotic therapy. He does not have any systemic manifestations. What would be your most likely diagnosis ?
- (A) Anaphylaxis
  - (B) Bechet's syndrome
  - (C) Erythema multiforme
  - (D) Lichen Planus
81. Which one of the following terms is most appropriate to describe pain occurring at the site of nerve injury ?
- (A) Analgesia
  - (B) Anesthesia
  - (C) Causalgia
  - (D) Hypoesthesia

82. A 40 years old gentleman with a 6 months history of trauma to his face and complains of slight burning in his temporal area accompanied by increased sweating. What is the most likely diagnosis ?
- (A) Bell's palsy
  - (B) Cluster headache
  - (C) Frey's syndrome
  - (D) Postherpetic neuralgia
83. Which of the following is more appropriate for CT number of blood ?
- (A) - 100 to - 60
  - (B) + 40 to + 60
  - (C) + 55 to + 75
  - (D) - 80 to - 60
84. A 55 years old edentulous female presents with an erythematous patch on her palate. She wears complete dentures and has a history of Insulin Dependent Diabetes Mellitus. You make a diagnosis of Denture stomatitis. Which drug is most likely to be effective for her ?
- (A) Amoxicillin and Clavulanic acid
  - (B) Metronidazole
  - (C) Hydrocortisone
  - (D) Miconazole
85. Which one of the following is the least likely indication for antibiotic prophylaxis to prevent bacterial endocarditis ?
- (A) Congenital heart disease
  - (B) Pacemaker
  - (C) Previous history of endocarditis
  - (D) Rheumatic fever
86. Three stages in progression of acute odontogenic infections are :
- (A) Periapical osteitis, cellulitis, abscess
  - (B) Abscess, cellulitis, periapical osteitis
  - (C) Cellulitis, abscess, periapical osteitis
  - (D) Periapical osteitis, abscess, cellulitis

87. Young patient is hospitalized with petechiae of oral mucous membrane, marginal gingival hemorrhage and with a platelet count of 45,000/cc. The BT and Clot Retraction time are increased RBC and TLC are normal. He is suffering from :
- (A) Infectious mononucleosis
  - (B) Thrombocytopenic purpura
  - (C) Leukemia
  - (D) Hemophilia
88. Pterygium of nail is characteristically seen in :
- (A) Lichen planus
  - (B) Pemphigus
  - (C) Tinea unguium
  - (D) Alopecia areata
89. A patient with carcinoma antrum will have worst prognosis if the path of spread is :
- (A) Along the orbital wall
  - (B) Posterior spread
  - (C) Inferior spread
  - (D) Medial spread
90. What is herpes zoster sine herpette ?
- (A) Zoster without rash
  - (B) Zoster vesicles on face
  - (C) Shiny vesicles in oral cavity
  - (D) Shiny vesicles on whole body
91. A 20-years-old male comes to the OPD with a short lingual frenum resulting in limitation of tongue movement. A diagnosis of tongue tie is made. Which another feature is associated with this anomaly ?
- (A) Anterior open bite
  - (B) Posterior open bite
  - (C) Anterior cross bite
  - (D) Posterior cross bite
92. Ankyloglossia is associated with which syndrome ?
- (A) Facial hemiatrophy
  - (B) Cheilitis glandularis
  - (C) Van der Woude syndrome
  - (D) Cleft lip and palate

93. A 60 years old female presents with recurrent oral and corneal ulceration. Her biopsy specimen reveals sub-epithelial bullae. What is your most likely diagnosis ?
- (A) Candidal infection  
 (B) Lichen planus  
 (C) Mucous membrane pemphigoid  
 (D) Pemphigus vulgaris
94. A 4-year-old, child presents with fever, gingival bleeding and extensive oral ulceration in his mouth. His medical history is unremarkable. What would be your most likely diagnosis :
- (A) Candidal infection  
 (B) Herpes Simplex infection  
 (C) Herpes Zoster infection  
 (D) Paramyxovirus infection
95. A 45-years-old female develops acute anaphylaxis following administration of amoxicillin. Which one of the following drugs would be the most appropriate first line therapy ?
- (A) Adrenaline  
 (B) Chlorpheniramine  
 (C) Diazepam  
 (D) Hydrocortisone
96. A 16-years-old female attends your dental practice for an appointment. She is fit and healthy but has a phobia of dental injections. During administration of an inferior dental nerve block she becomes unwell and faints. What do you think is the most likely cause ?
- (A) Cerebrovascular accident  
 (B) Hypoglycemic shock  
 (C) Myocardial infarction  
 (D) Vasovagal attack
97. Ghost shadows are seen in :
- (A) Submentovertex view  
 (B) Occipitomental view  
 (C) Panoramic view  
 (D) Conventional tomography
98. Angulation used in Panoramic Tomography is :
- (A) 0 downward  
 (B) 0 upward  
 (C) 8 downward  
 (D) 8 upward

99. Which of the following view should be taken for middle face fracture diagnosis ?

- (A) 0 occipitomenal view
- (B) 30 occipitomenal view
- (C) Both 0 and 30 occipitomenal view
- (D) Reverse Towne's view

100. Which of the following view is suitable for intracapsular fracture of TMJ ?

- (A) Rotated Postero-anterior view
- (B) Towne's projection
- (C) Bregma Menton view
- (D) Reverse Towne's view

101. Which of the following is an indication for rotated PA view ?

- (A) Stones/calculi in parotid gland
- (B) For impacted third molar
- (C) Temporal/infra-temporal space infection
- (D) Bucco-lingual expansion of cyst or tumors

102. Which of the following is the difference between true lateral skull and true cephalometric lateral skull ?

- (A) True lateral skull does not show fractures of middle third of the face whereas cephalometric shows middle third fracture
- (B) True lateral skull is not standardized and reproducible whereas cephalometric is standardized and reproducible
- (C) True lateral skull does not show Sella turcica whereas cephalometric shows Sella turcica
- (D) In true lateral skull central ray does not pass through external auditory meatus whereas in cephalometric it passes through external auditory meatus

103. Which of the following factor does not affect contrast ?

- (A) Differential linear attenuation coefficient of material
- (B) Thickness of material
- (C) Slope of characteristics curve of photographic film
- (D) Movement among source, object and film

104. Pseudo-image in radiograph is formed :

- (A) Due to overlapping of umbra
- (B) Due to overlapping of penumbra
- (C) Due to motion between film and object
- (D) Due to motion between focus and object

105. Geometric un-sharpness arises due to :

- (A) large focal spot size
- (B) Decreased focus film distance
- (C) Increased focus film distance
- (D) Increased focal film distance

106. Preservative used in fixing solution is :

- (A) Hydroquinone

(B) Sodium sulfite

(C) Acetic Acid

(D) Sodium Hydroxide

107. Which of the following statement is true when an object is placed at an angle ( $\theta$ ) to the film ?

- (A) Shadow of the object will be larger than actual dimension
- (B) As angle ( $\theta$ ) increased the foreshortening decreases
- (C) No effect of angle ( $\theta$ ) on size of shadow on radiograph
- (D) As angle ( $\theta$ ) increased the foreshortening increases

108. Which of the following regarding magnification of an radiograph is true ?

- (A) As object film distance is increased magnification decrease
- (B) As focus film distance is increased magnification decrease
- (C) As object film distance is increased magnification increase
- (D) No effect of object film distance or focus film distance on magnification

109. Which of the following statement regarding neuralgia is wrong ?

- (A) Neuralgic pain often results from disorders that involves cranial nerves
- (B) Pain free periods between attack and refractory periods
- (C) Neuropathic pain has short episodes of pain quality with presence of trigger zones
- (D) Neuralgic pain occurs along the course of nerve

110. The principal reason behind developing tolerance to carbamazepine in the cases of Trigeminal neuralgia is :

- (A) Decreased bioavailability
- (B) Psychological dependence
- (C) Physiological dependence
- (D) Autoinduction

111. Which of the type of Orofacial pain shows increased ESR ?

- (A) Cluster headache
- (B) Migraine
- (C) Carotidynia
- (D) Temporal arteritis

112. Which of the following neurotransmitter enhances central inhibitory system in pain processing ?

- (A) Epinephrine
- (B) Norepinephrine
- (C) Catechol-O-methyltransferase
- (D) Vasopressin

113. The focal spot to film distance in cephalometric radiography is :

- (A) 4 feet
- (B) 3 feet
- (C) 5 feet
- (D)  $2\frac{1}{2}$  feet

114. Which of the following questionnaire evaluates multidimensional aspect of pain ?

- (A) Multiaxial Assessment of Pain
- (B) McGill Pain Questionnaire
- (C) Research Diagnostic Criteria
- (D) Graded Chronic Severity Scale

115. Which of the following is not a Vitamin K dependent clotting factor ?

- (A) Factor II
- (B) Factor VII
- (C) Factor VIII
- (D) Factor IX

116. A dental radiograph that demonstrates very dark area and very light area are said to have :

- (A) High contrast
- (B) High density
- (C) Low contrast
- (D) Low resolution

117. Which of the following is rapidly adapting sensory receptor ?

- (A) Pain receptor
- (B) Muscle spindle
- (C) Carotid sinus
- (D) Pacinian corpuscles

118. Platelet aggregation is inhibited by :

- (A) ADP
- (B) 5-HT
- (C) PG 12
- (D) TxA2

119. Most of the excitatory neurotransmission in brain are mediated by :

- (A) Glutamate

(B) GABA

(C) Glycine

(D) GnRH

120. A raised level of calcium in blood (Hypercalcemia) :

- (A) May occur when parathyroid level decreases
- (B) May occur when plasma protein level falls
- (C) May occur in chronic liver failure
- (D) Increases the stone formation

121. Excessive glucocorticoid secretion (Cushing's syndrome) causes increase in :

- (A) Skin thickness
- (B) Bone strength
- (C) Increase blood glucose levels
- (D) Rate of wound healing

122. The site of protein synthesis is :

- (A) Plasma membrane
- (B) Ribosome
- (C) Mitochondria
- (D) Nucleus

123. Paul-Bunnell test is positive in :

- (A) Infectious mononucleosis
- (B) Multiple myeloma
- (C) Malignant nerves
- (D) Rubella

124. A peripheral blood smear of 72-years-old male shows marked anisocytosis and poikilocytosis. The mean corpuscular volume is increased and hyper segmented neutrophils are recorded. Probable diagnosis is :

- (A) Bone marrow hypoplasia
- (B) Pernicious anemia
- (C) Anemia associated with renal disease
- (D) Sickle cell anemia

125. Vitamin C deficiency results in :

- (A) Decreased number of collagen fibers
- (B) An increased elastin : Collagen ratio
- (C) Formation of defective collagen fibers
- (D) Insufficient ground substance

126. Mumps' virus is :

- (A) Herpes virus
- (B) Paramyxovirus
- (C) Adeno virus
- (D) Pox virus

127. Regarding granulomatous inflammation, which of the following is incorrect ?

- (A) Central caseous necrosis is rare in all granulomatous lesions except tuberculosis
- (B) Both Langerhans' and foreign body type cells can be seen in sarcoidosis
- (C) Acid fast bacilli are seen in tuberculosis and leprosy
- (D) Fungal infections cannot result in granulomas

128. Free radicals are :

- (A) Not a byproduct of metabolism
- (B) Can only form in presence of oxygen
- (C) May arise after absorbing radiant energy
- (D) Are removed with aid of Vitamin A derivatives

129. Which sensation is blocked first by low concentration of local anesthetics ?
- (A) Pain
  - (B) Touch
  - (C) Temperature
  - (D) Deep pressure
130. Corticosteroids exerts anti-inflammatory action through inhibition of :
- (A) Cyclooxygenase
  - (B) Lipoxygenase
  - (C) Phospholipase – A
  - (D) Phosphodiesterase
131. Component of Gardner syndrome is :
- (A) Polyps of small intestine
  - (B) High rate of malignant transformation
  - (C) Osteoma of maxilla and mandible
  - (D) Bifid rib
132. Sturge Weber Syndrome is associated with :
- (A) Lymphangiomas
  - (B) Ameloblastoma
  - (C) Hemangioma
  - (D) Thalassemia
133. The Breslow method is used to determine the level of cellular invasion in :
- (A) Squamous cell carcinoma
  - (B) Carcinoma ex-pleomorphic adenoma
  - (C) Basal cell carcinoma
  - (D) Malignant melanoma
134. Toluidine blue vital staining is used to find out areas of :
- (A) Acanthosis
  - (B) Hyperkeratosis
  - (C) Dysplasia
  - (D) Chronic inflammation
135. The most important factor governing the absorption from skin is :
- (A) Molecular weight of the drug
  - (B) Lipid solubility of the drug
  - (C) Nature of base used in drug formulation
  - (D) Site of drug application

136. Tricyclic antidepressants can alter the oral absorption of many drugs by :

- (A) Complexing with other drugs in intestinal lumen
- (B) Altering gut motility
- (C) Altering gut flora
- (D) Damaging gut mucosa

137. Muscle of mastication are derived from :

- (A) Myoblasts of first pharyngeal arch
- (B) Myoblast of second pharyngeal arch
- (C) Myoblast of third pharyngeal arch
- (D) Myoblast of fifth pharyngeal arch

138. First structure to become evident during development of face is :

- (A) Lateral nasal prominences
- (B) Olfactory placode
- (C) Primary palate
- (D) Fronto-nasal process

139. The morphology of tooth is determined at which stage of tooth development ?

- (A) Bud stage
- (B) Cap stage
- (C) Early bell stage
- (D) Late bell stage

140. Intrinsic and extrinsic muscles of tongue are derived from :

- (A) 1st pharyngeal arch
- (B) 1st, 3rd and 4th pharyngeal arch
- (C) Neural crest cells
- (D) Occipital myotomes

141. A differential effect is achieved during radiotherapy, it is due to the following reasons :

- (A) Damage to normal cells as well as cancerous cells equally
- (B) High growth fraction of cancer cells and greater potential for repair by normal cells
- (C) Relatively hypoxic central tumor cells are more susceptible to radiotherapy
- (D) Fractionation of dose

142. Which of the following groups of periodontal fibers are most numerous ?

- (A) Oblique
- (B) Alveolar crest
- (C) Apical
- (D) Horizontal

143. Which of the following statement is true about cementum ?

- (A) Cementum is more resistant to resorption than bone
- (B) Bone is more resistant to resorption than cementum
- (C) Cementum is highly vascularized tissue
- (D) Sharpey's fiber are extended part of cementum

144. T1N2M0 will be categorized into which of the following stages ?

- (A) Stage 1
- (B) Stage 2
- (C) Stage 3
- (D) Stage 4

145. Triple line of Baclesse can be seen on :

- (A) Water's view of skull
- (B) Lateral view of skull
- (C) Posteroanterior view of skull
- (D) Submentovertex view of skull

146. In which of the condition radiotherapy is contraindicated ?

- (A) Osteoblastoma
- (B) Chondroblastoma
- (C) Fibrous dysplasia
- (D) Chondroma

147. Which of the following statement is true about Post Herpetic Neuralgia (PHN) ?

- (A) The incidence of PHN is higher in Males
- (B) Young patients experience severe pain
- (C) The pain and numbness of PHN results from peripheral mechanism only
- (D) Greater than 25% of patients with herpes experience PHN for over 1 year

148. Socket sclerosis and lack of lamina dura resorption after extraction is a feature of :
- (A) Renal disease
  - (B) Cardiovascular disease
  - (C) Respiratory disease
  - (D) Gastrointestinal disease
149. Chronic Tendo-periostitis is exacerbated by chronic overuse of :
- (A) Temporalis muscle
  - (B) Masseter muscle
  - (C) Lateral pterygoid muscle
  - (D) Medial pterygoid muscle
150. Radiographically maxillary sinusitis is checked by :
- (A) Clouding of antrum
  - (B) Fluid level and bony erosion
  - (C) Clouding and fluid level
  - (D) Clouding and bony erosion
151. Which of the following statement is true regarding oral cancer cuniculatum ?
- (A) Oral Cancer Cuniculatum is a different entity from oral squamous cell carcinoma
  - (B) It typically occurs in palatal region
  - (C) It has definitive relation with human papilloma virus
  - (D) Radiologically, it manifests minimal bone damage
152. Highest level of evidence for therapeutic studies is :
- (A) Systematic review
  - (B) Randomized control trial
  - (C) Cohort studies
  - (D) Case control studies
153. Which of the following statement is recommended for reporting of meta-analysis ?
- (A) CORE statement
  - (B) PRISMA statement
  - (C) PICO Statement
  - (D) BROAD Statement
154. Which of the following type of Non-Hodgkin Lymphoma is common in oral cavity ?
- (A) T-cell
  - (B) B-cell
  - (C) Natural killer cells
  - (D) Histiocytic-monocytic cells

155. Ossifying fibromas of jaws are seen in :

- (A) SAPHO Syndrome
- (B) Chronic Recurrent Multifocal Osteomyelitis Syndrome
- (C) LEOPARD Syndrome
- (D) Hyperparathyroidism-jaw Tumor Syndrome

156. All of the following drugs causes osteonecrosis of jaw except :

- (A) Amino-bisphosphonate
- (B) Anti-angiogenic drugs
- (C) Cytotoxic drugs
- (D) Anti-resorptive drugs

157. Which one of these clinical features would be most helpful in distinguishing hematoma from nevus ?

- (A) Color of the lesion
- (B) Duration of the lesion
- (C) Whether the lesion is thickened
- (D) Whether the lesion is painful

158. Which of the following element is added to silver halide crystals in X-ray film to improve sensitivity ?

- (A) Barium

(B) Calcium

(C) Chlorine

(D) Gold

159. Which of the following statement is true regarding speed of film ?

- (A) It refers to amount of density required to read the radiograph
- (B) It is expressed as reciprocal of exposure required
- (C) Film speed can be increased by processing film at lower temperature
- (D) Film speed is controlled by amount of silver halide crystals

160. Which of the following statement is correct ?

- (A) Spatial Resolution Film > CCD = CMOS > PSP
- (B) Exposure Latitude Film > CCD = CMOS > PSP
- (C) Time for Image Acquisition Film > CCD = CMOS > PSP
- (D) Receptor Dimension Film > CCD = CMOS > PSP

161. Neurovascular canal in mandible may be symmetrical widened and enlarged in :
- (A) Chondroma
  - (B) Osteoma
  - (C) Chondrosarcoma
  - (D) Osteosarcoma
162. Non-inflammatory, non-neoplastic enlargement of salivary gland is known as :
- (A) Sialadenitis
  - (B) Sialosis
  - (C) Sialorrhea
  - (D) Sialodochitis
163. The aluminum filter in X-ray tube head reduces the dose of patient by :
- (A) Absorbing high penetrating long wavelength
  - (B) Absorbing high penetrating short wavelength
  - (C) Absorbing low penetrating long wavelength
  - (D) Absorbing low penetrating short wavelength
164. When exposing radiographs, you should ensure that central beam is aimed in interproximal area to avoid which error ?
- (A) Elongation
  - (B) Horizontal overlapping
  - (C) Horizontal angulation
  - (D) Vertical overlapping
165. An elongated image in a radiograph is the result of :
- (A) Excessive vertical angulation
  - (B) Excessive horizontal angulation
  - (C) Insufficient vertical angulation
  - (D) Insufficient horizontal angulation
166. Film speed refers to :
- (A) Image on a film
  - (B) Name of the film
  - (C) Sensitivity of the film
  - (D) Size of the film
167. Which of the following condition is least likely to be associated with increased risk of oral cancer ?
- (A) Leukoplakia
  - (B) Actinic cheilosis
  - (C) Leukoedema
  - (D) Plummer Vinson Syndrome

168. The growth of odontogenic keratocyst takes place in :

- (A) Antero-posterior direction
- (B) Bucco-lingual direction
- (C) Superior-inferior direction
- (D) Inferior-lateral direction

169. Garre's osteomyelitis is a type of chronic osteomyelitis where there is :

- (A) Diffuse cotton wool sclerosis in multiple quadrants
- (B) Necrosis of bone with suppuration and sequestrum formation
- (C) Periosteal bone formation due to mild infection/irritation
- (D) Well circumscribed sclerosis in the periapex in relation to the infected tooth

170. Which of the following systemic condition is not associated with aphthous ulcer ?

- (A) HIV infection
- (B) Sickle cell anemia

- (C) Inflammatory bowel disease
- (D) Cyclic neutropenia

171. Which clinical type of candidiasis manifests as curd like white patches that can be rubbed off ?

- (A) Acute atrophic
- (B) Pseudomembranous
- (C) Hyperplastic
- (D) Denture stomatitis

172. Bone pain, renal calcinosis and giant cell lesions are most likely to be seen in which of the following conditions ?

- (A) Hypothyroidism
- (B) Hyperthyroidism
- (C) Hyperparathyroidism
- (D) Hypoparathyroidism

173. Which of the following region do you expose first if patient has bad gag reflex ?

- (A) Anterior region
- (B) Posterior region
- (C) Maxillary region
- (D) Mandibular region

174. If a radiograph has herring bone or tire track appearance in processed film than probable causing factor is :

- (A) Bending of radiograph
- (B) Incorrect film placement
- (C) Insufficient vertical angulation
- (D) Film holder marks

175. Most common site from which, cancer metastasize to oral mucosa in men is :

- (A) Lung
- (B) Prostate
- (C) Liver
- (D) Kidney

176. Which of the following antibiotics is recommended in pregnant female with dental pain ?

- (A) Amoxicillin
- (B) Erythromycin
- (C) Doxycycline
- (D) Tetracycline

177. Diascopy test is used for :

- (A) Epidermal lesions
- (B) Dermal lesions

- (C) Vascular lesions
- (D) Soft tissue lesions

178. Which of the leukemia type causes gingival enlargement ?

- (A) Acute myelogenous leukemia
- (B) Chronic myelogenous leukemia
- (C) Acute lymphocytic leukemia
- (D) Chronic lymphocytic leukemia

179. Which of the following feature corresponds to Articular disc derangement with reduction ?

- (A) Pain is not associated with joint noise during movement
- (B) Mandibular deviation during opening and closing coincides with click
- (C) Previous history of click that stopped after some time
- (D) Limited mouth opening

180. A stretch reflex which is produced by downward tap of chin results in monosynaptic reflex contraction of jaw closing muscle is called :

- (A) Jaw jerk reflex
- (B) Jaw opening reflex
- (C) Jaw closing reflex
- (D) Reverse jerk reflex

181. Which of the following statement is false regarding Toluidine Blue ?

- (A) It is metachromatic dye which stains DNA
- (B) Higher number of false positive may occur
- (C) Higher number of false negative may occur
- (D) In tissue biopsies Toluidine Blue staining is correlated to loss of Heterozygosity

182. Which of the following feature does not come under criterion of ABCDE of Malignant melanoma ?

- (A) Asymmetry
- (B) Irregular Border
- (C) Size greater than 4 mm
- (D) Colour variation

183. Mucosal pemphigus vulgaris shows antibodies against :

- (A) Desmoglein 1
- (B) Desmoglein 2
- (C) Desmoglein 3
- (D) Both Desmoglein 1 & 3

184. Which of the following drug is first line of therapy for Primary Stomatodynia ?

- (A) Amytriptyline
- (B) Gabapentine
- (C) Alpha Lipoic acid
- (D) Pregabalin

185. A 56 years old patient is on warfarin therapy and having severe toothache. Which of the following analgesics can be suitably given to him ?

- (A) Ibuprofen
- (B) Celecoxib
- (C) Diclofenac
- (D) Naproxen Sodium

186. Cupping artifact in CBCT is due to :

- (A) Misalignment of X-ray source to detector
- (B) Poor calibration
- (C) Less number of frames per second
- (D) Differential absorption of X-ray

187. Higher frame rate in CBCT results in:

- (A) Higher signal to noise ratio
- (B) Increases metallic artifact
- (C) Decreases the radiation dose to patient
- (D) Takes less time to scan

188. An IOPA of 40-years-old female shows periapical radiolucent lesion in relation to lower anterior tooth. Which would be better method to differentiate periapical osseous dysplasia from periapical rarefying osteitis?

- (A) Radiograph
- (B) Pulp Vitality test
- (C) Clinical examination
- (D) Alkaline phosphatase levels

189. Horizontal magnification in Panoramic radiograph depends upon:

- (A) Distance between X-ray source and subject

(B) Distance between Subject and Center of focal trough

(C) Distance between Film and X-ray source

(D) Distance between Focal trough and X-ray source

190. Which of the following term denotes the upper threshold value for Diagnostic radiations in patients?

- (A) Linear non-threshold
- (B) Diagnostic achievable doses
- (C) Diagnostic reference levels
- (D) Diagnostic limit levels

191. Cells that are damaged by the radiation release their immediate component into environment that kills nearby cells is called:

- (A) Bystander effect
- (B) Electrolysis effect
- (C) Radiation damage effect
- (D) Burnout effect

192. Which of the following statement is correct regarding radiosensitivity of cells ?

(A) Radiosensitivity is independent of replication of cells

(B) Slow dividing cells require smaller doses for induction of deterministic effect

(C) Rapidly dividing cells requires smaller doses for induction of deterministic effect

(D) Irradiation of slow dividing cells causes mitotic delay

193. Which of the following statement is true regarding interaction of X-ray photon with matter ?

(A) Photons in X-ray beam primarily interacts with matter by photoelectric effect

(B) Photoelectric effect occurs by absorption of photon in higher atomic number structures

(C) Maximum scattering is produced by coherent scattering

(D) About 27% of X-ray photon does not interact with matter at all

194. Jones criteria of diagnosis is used for :

(A) Infective endocarditis

(B) SBE

(C) Hypertension

(D) Rheumatic Fever

195. Occurrence of chloromas is one of the manifestations of :

(A) Burkitt's lymphoma

(B) Hodgkin's disease

(C) Agranulocytosis

(D) Acute leukemia

196. This test is accurate screener of extrinsic pathway to coagulation :

(A) Prothrombin time

(B) Partial thromboplastin time

(C) Platelet count

(D) Bleeding time

197. "Pathergy Test" is done for :

- (A) Sutton's disease
- (B) Mikulicz's disease
- (C) Bechet's disease
- (D) MAGIC syndrome

198. Which plate is used to record an image in xeroradiography ?

- (A) Copper plate
- (B) Lead plate
- (C) Aluminum plate
- (D) Selenium plate

199. Restrainer used in developer is :

- (A) Potassium sulphide
- (B) Acetic acid
- (C) Potassium bromide
- (D) Aldehydes

200. Corticated borders of inferior alveolar canal are called :

- (A) Line of Ennis
- (B) Oblique ridges
- (C) Tram lines
- (D) Campbell lines

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