Questions with definite Correct Answers

1. The proportional limit of a material is the stress at which elastic deformation first begins to occur X at which strain hardening ceases to occur beyond which plastic deformation begins to occur X at which fracture occurs

2. Fractures of the mandible passing through tooth sockets are classified as simple compound greenstick comminuted displaced

3. Digitalis is prescribed for the treatment of nephritis angina pectoris coronary occlusion congestive heart failure

4. When exposing radiographic film, the amount of radiation received by the patient is best reduced by collimation decreased object-film distance low kVp correlated with high milliamperage decreased target-object distance slow speed film

5. When comparing primary molar teeth to permanent molar teeth, primary teeth have a larger crown : root ratio more widely separated roots shorter and wider roots pulps which are smallest in relation to crown size

6. A 15 year old presents with hypoplastic enamel on tooth 1.5. All other teeth are normal. This was most probably caused by a/an vitamin D deficiency generalized calcium deficiency high fever encountered by the patient when he had measles at age 3 infection of tooth 5.5 during development of tooth 1.5 hereditary factor

7. Following the injection of a local anesthetic for an inferior alveolar nerve block, trismus results from injection near the facial nerve injection near the motor distribution of the trigeminal nerve trauma to the medical pterygoid muscle

8. The epithelial lining of a radicular cyst is derived from the epithelial cell rests of Malassez oral epithelium proliferating apically from a periodontal pocket endothelial proliferation of capillaries in the area metaplasia of histiocytes and/or cementoblasts
9. A major secondary therapeutic use of the phenothiazines is as an antiemetic antidepressant anticonvulsant antihypertensive

10. Bevelling the enamel at the gingival cavosurface margin of a Class II cavity preparation for amalgam is contraindicated because of the weak edge of amalgam provided by a steep cavosurface bevel of the enamel margin unnecessary since the remaining tooth structure is strong

needed to remove unsupported enamel rods

11. Unilateral premature eruption of teeth is characteristic of acromegaly hemihypertrophy hemiatrophy cleidocranial dysostosis adrenogenital syndrome

12. Detection of early occlusal caries in pits and fissures is best performed by use of visual inspection of clean, dry teeth high quality bite-wing radiographs caries-disclosing dyes on the occlusal surface a fine, sharp explorer to probe pits and fissures

13. An 8 year old patient has lost both maxillary central incisors in an accident. The most appropriate management is observation orthodontics to close the space placement of a space maintainer with bands cemented on the lateral incisors construction of a removable partial denture placement of implants

14. In local anesthesia, depression of respiration is a manifestation of puncture of a blood vessel use of non-isotonic solution toxic effects of the solution trauma to a nerve trunk by the needle

15. On the vestibular aspect of tooth 2.3, there is 4mm of recession with a 3mm probing depth, no keratinized gingiva and no radiographic interproximal bone loss. The most predictable esthetic outcome is achieved with a free gingival graft a subepithelial connective tissue graft a coronally repositioned flap guided tissue regeneration

16. The mandibular division of the trigeminal nerve leaves the cranium through the foramen rotundum foramen lacerum stylomastoid foramen foramen ovale
17 Periapical surgery is CONTRAINDICATED for a tooth that has a large periapical rarefaction, sinus tract related to a periapical lesion, **vertical root fracture**, fracture of the root apex and a necrotic pulp, post and core and crown.

18 After pulpotomy or pulpectomy, a primary molar should be restored with an amalgam alloy restoration, **a full-coverage metallic crown**, zinc-oxide-eugenol cement, a composite resin crown.

19 The disc of the temporomandibular joint is moved by the lateral pterygoid muscle, medial pterygoid muscle, temporal muscle, fibres of the masseter muscle, upper fibres of the buccinator muscle.

20 A 5 year old child, highly susceptible to caries, presents with missing primary mandibular first molars. Radiographs reveal the presence of the first premolars. The most appropriate space management is/are **two band and loop space maintainers**, a removable acrylic space maintainer, a lingual arch, no appliance.

21 A model prepared from a vacuum mixed stone has higher strength because less water is required for vacuum mixing, **there is less porosity** some of the water is removed by the vacuum, the nuclei for crystallization are more numerous.

22 Two separate root canals are LEAST likely to be found in the mandibular central incisor, maxillary first premolar, mesiobuccal root of the maxillary first molar, **palatal root of the maxillary first molar**

23 In a 9 year old patient, the occlusal surface of a non-carious submerged primary mandibular second molar is level with the gingival margin. The second premolar is present radiographically. The most appropriate management of the primary tooth is to loosen it to encourage eruption, cover it with an oversized crown, extract it and maintain the space, **wait for it to be exfoliated**

24 Which of the following predisposes a patient to exaggerated cardiovascular effects of epinephrine? **Hyperparathyroidism**, **Hyperthyroidism**, Hypogonadism, Acromegaly
25 When a diagnosis of a primordial cyst is made, there is likely to be the normal number of teeth in that jaw one less than the normal number of teeth in that jaw one more than the normal number of teeth in that jaw a squamous cell carcinoma in that jaw a primordial cyst situated symmetrically on the opposite side

26 Which of the following histopathological features would be the most reliable indicator of the malignancy of a neoplasm?
- Hyperchromatism
- Pleomorphism
- Encapsulation
- Invasion
- Degeneration

27 Cell rests of Malassez probably originate from the stellate reticulum dental papilla Hertwig’s root sheath stratum intermedium

28 Following radiation therapy to the mandible, extraction of mandibular teeth is most likely to result in fracture actinomycosis osteomyelitis soft tissue necrosis development of malignancy

29 A mixed dentition analysis is used to determine if sufficient room exists for the eruption of permanent
   A. Canines
   B. Canines and premolars
   C. Molars
   D. Molars and premolars

30 A patient has spontaneous pain and intense sensitivity to cold with lingering pain. The most likely diagnosis is acute irreversible pulpitis chronic irreversible pulpitis acute periradicular periodontitis chronic periradicular periodontitis

31 A patient under long term corticosteroid therapy requires a routine restorative procedure under local anesthesia. The most appropriate management is to discontinue the corticosteroids a day before the appointment reduce the dose to half the daily dose several days before the appointment discontinue the corticosteroids and start the patient on antibiotics following the appointment proceed without alteration of the corticosteroid therapy

32 Which of the following is a complication of prolonged systemic corticosteroid treatment? Oral candidiasis Xerostomia Aphthous stomatitis
33. An osteoclast is a cell that forms bone of the endosteum that resorbs bone which forms collagen.

34. A 45 year old patient has 32 unrestored teeth. There are deeply stained grooves in the molars, but there is no evidence of enamel softness. The most appropriate management is to:
- place preventive resin restorations
- apply pit and fissure sealants
- place conservative Class I restorations
- do no treatment

35. A 2 1/2 year old lives in a community with 0.5ppm fluoride in the drinking water. What is the most appropriate preventative management?

- Regular recall appointments
- Fluoride varnish at 3 month intervals
- Daily fluoride drops
- Fissure sealants on the second primary molars

36. When an acute periapical abscess is present, accompanied by pain and a fluctuant swelling, the most appropriate immediate management is to:
- prescribe appropriate antibiotics
- establish drainage
- perform a pulpectomy and apical curettage
- thoroughly clean and shape the root canal

37. Which of the following could cause clicking sounds during speech in denture wearers?
- Excessive vertical dimension
- Nonbalanced occlusion
- Excessive buccal flange thickness
- Reduced vertical overlap

38. Hydrocolloid impression materials must be poured immediately because they adhere to plaster and stone if not poured immediately are subject to syneresis and inhibition lose strength and disintegrate if left unpoured begin to swell immediately after removal from the mouth

39. Formation of the alveolar process is stimulated by chewing motions a result of lengthening of the condyle a part of the overall growth of the bodies of the maxilla and mandible due to the eruption of teeth

40. Which is NOT a sign of thyrotoxicosis?
- Tremor
- Exophthalmos
Slow pulse rate
Temperature elevation

41 Which of the following is the most reliable indication of an active root caries lesion?
- Brown discoloration
- Abfraction deeper than 1.5mm
- Discoloured lesion with the same hardness as healthy root surface
Soft or leathery consistency

42 Which one of the following oral preventative aids DOES NOT remove dental plaque?
- Toothbrushes
- Dental Floss
- X Interdental papillae stimulation device
- Interdental brushes
- Irrigating devices

43 Which of the following is NOT associated with Cushing's disease?
- Buffalo hump
- Osteoporosis
- Hirsutism
- Hypertension
- Diabetes insipidus

44 Which of the following is the most likely result of damage to cells of the inner enamel epithelium?
- Amelogenesis imperfecta
- Dentinogenesis imperfecta
- Defective accessory root canal formation
- Dentigerous cyst

45 Which of the following is NOT an ester anesthetic?
- Procaine
- Tetracaine
- Mepivacaine
- Butethamine
- Pontocaine

46 Which microorganisms predominate in early plaque?
- Gram-positive aerobic rods
- Gram-negative aerobic rods
- Gram-positive aerobic cocci
- Gram-negative aerobic cocci
- Gram-positive anaerobic cocci

47 Titanium and titanium alloys are used for manufacturing root-form dental implants because the oxide layer makes the surface
- porous
- passive
- wear resistant
- X osteoinductive

48 The tongue of a patient suffering from extreme vitamin B deficiency will usually appear
- red, smooth and glossy
thickly coated and pale
with a median rhomboid glossitis
red, swollen and covered with debris

49 A risk factor for gingival recession is
fremitus
vitality
**tooth position**
traumatic occlusion

50 A possible consequence for patients taking cyclosporine is
erythematous gingiva
**fibrous gingival hyperplasia**
loss of soft tissue attachment
epithelial sloughing

51 The most appropriate management of a non-displaced fracture of the body of the mandible in an edentulous patient is
K-wire insertion without immobilization
open reduction and lower border wiring without immobilization
open reduction and lower border wiring plus immobilization
**use of splint or lower denture with circumferential wiring**

52 In a Class II cavity preparation for a composite resin restoration, the occlusal cavosurface margin is
not bevelled
bevelled to improve esthetics
bevelled to improve marginal seal
bevelled to improve retention

53 A factor that increases caries risk in elderly patients is
**age-related decreased salivary flow rate**
change in cementum composition
age-related change in enamel composition
presence of chronic periodontal disease

54 The most appropriate initial pharmacological treatment for **denture stomatitis** is
acyclovir
diphenhydramine
**nystatin**
minocycline

55 The most appropriate treatment for a permanent central incisor with a necrotic pulp and a wide open apex is
pulpotomy with calcium hydroxide
**apexification with calcium hydroxide**
apexification with zinc oxide
root canal therapy using gutta-percha
root canal therapy followed by a retrograde amalgam filling
56 Sensitivity related to a noncarious cervical lesion is due to the inorganic structure of dentin—a result of the dentinogenesis process consistent with the hydrodynamic theory enhanced by thermoconductivity of dentin.

57 Three days after cementation of a fixed bridge, discomfort during chewing is most likely the result of failure to remove excess marginal cement an occlusal prematurity devitalization of an abutment tooth gingival recession.

58 A positive pulp response to the application of cold indicates pulpal necrosis periodontal involvement an acute alveolar abscess a periodontal abscess tooth vitality.

59 Minimizing the dissemination of saliva and blood when using high speed handpieces for cavity preparation is best accomplished by the use of a saliva ejector cotton rolls anticholinergic drugs to reduce salivary flow rubber dam.

60 Compared with morphine, codeine has the advantage of having a higher potency an improved bioavailability no sedative effect no respiratory depression no effect on gastrointestinal motility.

61 The sum of the widths (mesiodistal diameter) of the primary first and second molars is generally greater than the permanent successors smaller than the permanent successors same as the permanent successors not related to the permanent successors.

62 The causative organism in most acute alveolar infections is X staphylococcus lactobacillus streptococcus candida albicans X actinomyces.

63 A 65 year old patient presents with an ulcerated lesion of 1cm diameter on the side of the tongue which has been present for two months. What is the most appropriate initial management?
Perform cytologic examination Excise a portion of the ulceration and adjacent normal tissue X Excise the entire lesion Refer for implantation of radium needles Refer for radiotherapy.
64 In epidemiology, the ability of a test to detect disease when disease is present is referred to as its
sensitivity
accuracy
reliability

65 A lower molar requiring a crown has an amalgam restoration extending 1.0 mm sub-gingivally. The
crown margin should be placed
on the existing amalgam
at the amalgam/tooth junction

1 mm apical to the amalgam margin
2 mm apical to the amalgam margin

66 A substantial increase in maxillary arch width is most appropriately obtained by placing
lingual archwires

a rapid palatal expansion appliance
posterior intermaxillary cross-elastic bands
a face-bow headgear with an expanded inner bow

67 After giving buccal infiltration anesthesia for the removal of a maxillary premolar, the patient complains
of a sharp pain in the cheek which blanches. This is a result of
injecting too much solution
X injecting the solution too rapidly
stimulating sympathetic nerves around an artery
intravenous injection

68 Facial nerve paresthesia is most likely to occur from which of the following injections?
Posterior superior alveolar block
Inferior alveolar block
Posterior palatine block
Extraoral maxillary division block

69 The areas that may be adjusted during a laboratory occlusal correction of complete dentures with
teeth set in a normal horizontal overlap relationship without changing the vertical dimension of occlusion
are the
maxillary lingual cusps
mandibular buccal cusps
central grooves of mandibular posterior teeth
maxillary buccal cusps

70 In complete dentures, the external oblique line is used as a guide for the
position of the posterior teeth
height of the occlusal plane
termination of the buccal flange
termination of the lingual flange

71 Which one of the following agents does NOT cause gastric irritation?
Acetylsalicyclic acid
Alcohol
Ibuprofen
Indomethacin
Acetaminophen
72 Temporomandibular joint dysfunction pain is most frequently caused by
- impacted third molars
- malocclusion
- muscle hyperactivity
- subluxation

73 Repeated facial trauma can cause a/an
- masseter hypertrophy
- osteosarcoma
- suppurative myositis
- ossifying myositis
- ossifying periostitis

74 Periodontal prognosis is worst during periodontal maintenance therapy with the presence of deep pockets and frequent
- bleeding on probing at the gingival margin
- bleeding on probing at the bottom of the pocket
- dental plaque at the bottom of the pocket
- calculus at the bottom of the pocket

75 The significance of dental calculus in the etiology of periodontal diseases is that it
- acts as an irritant to the periodontal tissues
- distends the periodontal pocket wall
- acts as a niche which harbours bacterial plaque
- inhibits the ingress of polymorphonuclear leukocytes (PMN's)

76 Acute herpetic gingivostomatitis is a disease characterized by
- mouth ulcers, conjunctivitis, hyperpyrexia and submaxillary lymphadenitis
- recurrent mouth ulcers, enlargement of gingiva and symptoms of malaise and fever
- inflamed gingiva, lymphadenitis, fever and mouth ulcers
- fever, mouth ulcers, parotid swellings and hypertrophic gingivitis

77 If an infection does not improve with penicillin therapy
- the bacteria should be tested for penicillin sensitivity
- a Gram-negative organism is probably the causative agent
- a penicillin allergy should be suspected
- the dose of penicillin should be increased

78 For a porcelain fused to metal restoration, the metal surface
- requires some degree of mechanical retention
- should not be heat treated
- requires a well polished surface
- must develop an oxide for chemical bonding
- should be treated in hydrochloric acid

79 Isthmus fractures of Class II amalgam restoration most frequently occurs because of
- inadequate condensation
- inadequate width and bulk
- the low compressive strength of amalgam
- burnishing during condensation
80 A diabetic patient becomes confused and agitated during dental treatment. The suspected cause is hypoglycemia. The most appropriate immediate management is
a subcutaneous injection of 10 units soluble insulin
a subcutaneous injection of 5 units soluble insulin
**a drink of oral glucose or sugar**
intravenous glucose 25g

81 Placement of yellow external stain on a porcelain crown will increase chroma and increase the value
**decrease the value**
increase the hue
decrease the hue

82 Compared to stainless steel instruments used in endodontics, nickel-titanium instruments are stronger
become weaker following sterilization
**are more flexible**
have a shorter shelf life

83 The curve of Spee is greater in individuals with Angle
A Class I malocclusion
**B Class II malocclusion**
C Class III malocclusion

84 Epinephrine, when used to treat an anaphylactic reaction, has the following desirable effects EXCEPT rapid onset
vasoconstriction
bronchodilation
**interference with antigen-antibody reaction**

85 The floor of the mouth is formed by the
digastric muscle
X genioglossus muscle
**mylohyoid muscle**
styloglossus muscle

86 The premolar with the occlusal groove pattern simulation the letter “Y” is the
maxillary first premolar
mandibular first premolar
X maxillary second premolar
**mandibular second premolar**

87 Which of the following is usually present in an Angle Class II, division 2 malocclusion?
Open bite
Retroclined maxillary lateral incisors
**Retroclined maxillary central incisors**
Distoclusion of permanent maxillary first molars

88 The autonomic nervous system is primarily controlled by the Thalamus
Hypothalamus
Subthalamus
Metathalamus
Epithalamus

89 One of the purposes of premedication with atropine or scopolamine is to
increase the pain threshold
reduce the amount of anaesthetic administered
**reduce secretions**
eliminate respiratory depression

90 On a tooth to be extracted the beaks of extraction forceps should
**be placed as far apically as possible**
be placed at the cervical line of the tooth
engage the furcations of multi-rooted teeth
fit tightly on the crown and the root of the tooth

91 The first stage of growth of the primary dentition is evident at the
third week of embryonic life
**sixth week of embryonic life**
time of birth
sixth week after birth

92 The principal difference between potassium, procaine and benzathine salts of penicillin G is their
potency
toxicity
**duration of action**
antibacterial spectrum
diffusion into the cerebrospinal fluid

93 After completion of intitial therapy which included root planing and curetage, a patient has suprabony
pockets of 5mm. Despite good plaque control, these pockets exhibit bleeding on probing. The most
appropriate treatment is
additional root planing
occlusal adjustment
**gingivectomy**
X periodontal flap surgery

94 Necrotizing ulcerative gingivitis affects primarily the
X attached gingiva
**gingival papilla**
alveolar mucosa
buccal mucosa
epithelial attachment

95 What is the most appropriate intitial management of a localized periodontal abscess?
Prescription of an antibiotic
Surgical pocket reduction
Occlusal adjustment
**Debridement of the pocket**

96 Cervical radiolucency at the cemento-enamel junction is most likely due to
caries at the site
bone loss at the alveolar crest
lower density of tissue at the cemento-enamel junction
gingival recession

97 The function of an indirect retainer is to prevent
tissue resorption
occlusal interferences
X movement of the denture base toward the tissues
movement of a distal extension base away from the tissues

98 A cavity lining under a composite resin restoration is used to
bind or adhere the composite resin to the cavity wall
protect the restorative material from moisture in the dentinal tubules
prevent pigments in the composite resin from staining the tooth
minimize irritation of pulp tissue

99 The most common malignancy found in the oral cavity is
basal cell carcinoma
melanoma
X squamous cell carcinoma
pleomorphic adenoma

100 A 7 year old presents with tooth 4.1 in crossbite. The most appropriate time to initiate treatment is

a as soon as possible
b when all the permanent teeth have erupted
c after the eruption of all permanent incisors
d X after eruption of the permanent mandibular cuspids