Total Marks: 45 Time Allowed: 45 Minutes

Total No. of MCQs: 45

- MCQ.1 Disturbance of saliva production from the parotid gland is likely to result from damage to which of the following ganglia?
 - a) Gasserian
 - b) Geniculate
 - c) Otic
 - d) Pterygopalatine
 - e) Trigeminal

Key: c

Topic: Oral Anatomy

- MCQ.2 A 20 year old man falls down and chips the incisal edge of his maxillary central incisor, reducing the length of the crown. A dentist informs him that the tooth may erupt a little to compensate for the loss. This tooth movement is likely to result in increase in size of which of the following dental tissues?
 - a) Cementum
 - b) Dentin
 - c) Enamel
 - d) Periodontal ligament
 - e) Pulp **Key:** a

Topic: Oral Anatomy

- MCQ.3 A patient complains of loss of taste, and a numb sensation in the left half of his tongue, after removal of his left lower wisdom tooth. Which of the following nerves is most likely to have been injured during removal of this tooth?
 - a) Facial nerve
 - b) Glossopharyngeal nerve
 - c) Inferior alveolar nerve
 - d) Lingual nerve
 - e) Mandibular nerve

Key: d

Topic: Oral Anatomy

MCQ.4 The position of maximum inter cuspation of upper & lower teeth is referred to as

- a) Centric position
- b) Centric occlusion
- c) Centric relation
- d) Centric organization
- e) Centric bite

Key: b

Topic: Oral Anatomy

MCQ.5 A person eats a starch rich diet. Saliva from which of the following glands is most likely to be effective in digestion of this food?

- a) Glamds of von Ebner
- b) Minor Salivary Glands
- c) Parotid glands
- d) Submandibular glands
- e) Sublingual glands

Key: c

Topic: Oral Anatomy

MCQ.6 At the age of nine years, the mandibular permanent first molar has its distal contact with which of the following teeth?

- a) First premolar
- b) No distal contact
- c) Second deciduous molar
- d) Second permanent molar
- e) Second premolar

Key: b

Topic: Oral Anatomy

MCQ.7 A deep carious lesion in a tooth reaches the pulp. The pulp responds by vasodilatation. There is migration of white blood cells into the pulp. This response is most likely to be initiated by cells in which of the following zones of the pulp?

- a) Cell free zone
- b) Cell rich zone
- c) Odontoblast layer
- d) Plexus of Raschow
- e) Pulp core

Key: e

MCQ.8

A 13 year old boy presents to his general dental practitioner with a broken upper incisor tooth of one day duration. He complains of pain in the tooth when drinking cold water. On examination the enamel of the incisal edge has been chipped off, and the underlying dentin exposed. Which of the following contents of he dentinal tubule are most likely to be responsible for the pain felt by the patient?

- a) Collagen
- b) Fluid
- c) Nerve endings
- d) Odontoblastic process
- e) Proteoglycans

Key: b

Topic: Oral Histology

MCQ.9 Which of the following types of dentin is continuously produced throughout life?

- a) Interglobular dentin
- b) Intertubular dentin
- c) Intratubular dentin
- d) Mantle dentin
- e) Tertiary dentin

Key: c

Topic: Oral Histology

MCQ.10 Which of the following ducts arise from secretory end pieces of salivary glands?

- a) Striated ducts
- b) Excretory ducts
- c) Intercalated ducts
- d) Interlobular ducts
- e) Secretory

Key: c

- MCQ.11 In a haematoxylin and eosin stained histological section of a salivary gland, the following features are seen: Lightly stained pyramidal cells with flattened nuclei, arranged in tubular patterns. Which of the following cells are likely to have these characteristics?
 - a) Ductal cells
 - b) Fibroblasts
 - c) Mucous cells
 - d) Myoepithelial cells
 - e) Serous cells

Key: c

Topic: Oral Histology

- MCQ.12 The part of alveolar bone that surrounds the root of the tooth and gives attachment to the principal fibres of the periodontal ligament is called:
 - a) Alveolar crest
 - b) Alveolar process
 - c) Bundle bone
 - d) Inner cortical plate
 - e) Outer cortical plate

Key: c

Topic: Oral Histology

- MCQ.13 When enamel surface is viewed under the microscope, shallow furrows called perikymata are seen. These are likely to be due to
 - a) Abrasion from tooth brush
 - b) Attrition from occlusal forces
 - c) Cracks (lamellae) in enamel
 - d) Incremental formation of enamel
 - e) Organic (protein) deposits from the saliva

Kev: d

Topic: Oral Histology

- MCQ.14 Which of the following terms may be used to indicate the dentin formed *first* in the tooth?
 - a) Granular Dentin
 - b) Hyaline Dentin
 - c) Mantle Dentin
 - d) Primary Dentin
 - e) Radicular Dentin

Key: c

- MCQ.15 Cells that are responsible for the production of reactive dentin are most likely to be present in which of the following areas of pulp?
 - a) Around blood vessels
 - b) Cell free zone
 - c) Cell rich zone
 - d) Pulp core
 - e) Pulp periphery

Key: e

Topic: Oral Histology

- MCQ.16 Merkel cells are likely to be found in which of the following tissues?
 - a) Epithelium
 - b) Papillary lamina propria
 - c) Periosteum
 - d) Reticular lamina propria
 - e) Submucosa

Key: a

Topic: Oral Histology

- MCQ.17 Which of the following papillae of the tongue are dome shaped, with taste buds on the superior surface, and are present scattered on the anterior 2/3rd of the tongue?
 - a) Circumvallate papillae
 - b) Filiform papillae
 - c) Foliate papillae
 - d) Fungiform papillae
 - e) Lingual papillae

Key: a

Topic: Oral Histology

- MCQ.18 Which of the following areas of enamel is strongest i.e. most resistant to stresses?
 - a) Perikymata
 - b) Enamel tufts
 - c) Gnarled enamel
 - d) Hunter Schregger bands
 - e) Striae of Retzius

Key: c

- MCQ.19 Ameloblasts form conical projections called Tomes Processes during which of the following stages of amelogenesis?
 - a) Desmolytic
 - b) Maturative
 - c) Morphogenic
 - d) Protective
 - e) Secretory

Key: e

Topic: Oral Histology

- MCQ.20 A child suffers from a febrile illness. During the illness tooth development temporarily slows down. The development resumes normally soon after. This change in development of the tooth structure is most likely to be apparent in which of the following histological features of dentin?
 - a) Dentinal tubules
 - b) Granular layer of Tome's
 - c) Lines of von Ebner
 - d) Secondary dentin
 - e) Tertiary dentin

Key: c

Topic: Oral Histology

- MCQ.21 Dentin formation is most likely to be initiated by which of the following parts of the enamel organ?
 - a) Inner enamel epithelium
 - b) Outer enamel epithelium
 - c) Reduced enamel epithelium
 - d) Stellate reticulum
 - e) Stratum intermedium

Kev: a

Topic: Oral Histology

- MCQ.22 Which of the following types of dentin is likely to have the highest mineral content?
 - a) Interglobular
 - b) Inter-tubular
 - c) Mantle
 - d) Secondary
 - e) Sclerotic

Key: e

MCQ.23 During production of enamel which of the following parts of the enamel organ collapses (disappears)?

- a) Inner enamel epithelium
- b) Outer enamel epithelium
- c) Reduced enamel epithelium
- d) Stellate reticulum
- e) Stratum intermedium

Key: d

Topic: Oral Histology

MCQ.24 Which of the following groups of periodontal ligament fibres are most numerous?

- a) Alveolar crest
- b) Apical
- c) Horizontal
- d) Interradicular
- e) Oblique

Key: e

Topic: Oral Histology

MCQ.25 The highest quantity of inorganic content is likely to be present in which of the following tissues related to teeth?

- a) Cementum
- b) Dentin
- c) Enamel
- d) Periodontal ligament
- e) Pulp

Key: c

Topic: Oral Histology

MCQ.26 Which of the following histological features of enamel is apparent due to an optical phenomenon?

- a) Tufts
- b) Spindles
- c) Lines of Retzius
- d) Hunter Schreger bands
- e) Cross striations

Key: d

- Differentiation of ameloblasts from the internal enamel epithelium MCQ.27 takes place in which of the following stages of tooth development?
 - a) Bud
 - b) Cap
 - c) Early bell
 - d) Eruption
 - e) Late bell

Key: c

Topic: Oral Embryology

- MCQ.28 During an illness for a child tooth calcification is disturbed. This will most likely affect teeth that are in which of the following stages of development?
 - a) Bud
 - b) Cap
 - c) Early Bell
 - d) Late Bell
 - e) Morphogenic stage

Key: d

Topic: Oral Embryology

- MCQ.29 Ossification of the mandible starts in which if the following regions?
 - a) Alveolar process
 - b) Condyle
 - c) Coronoid
 - d) Mental foramen
 - e) Symphysis menti

Key: d

Topic: Oral Embryology

- MCQ.30 Intrinsic and extrinsic muscles of the tongue are the derivatives of which of the following?

 - a) 1st pharyngeal arch
 b) 1st, 3rd, and 4th pharyngeal arches
 - c) 2nd pharyngeal arch
 - d) Neural crest cells
 - e) Occipital myotomes

Key: e

Topic: Oral Embryology

- MCQ.31 The calcium ions present in saliva are most likely to play a role in which of the following functions of saliva?
 - a) Antibacterial
 - b) Buffering
 - c) Digestion
 - d) Lubrication
 - e) Protection

Key: e

Topic: Oral Physiology

- MCQ.32 A sample of saliva taken from the human oral cavity is found to contain the enzyme lipase. This sample is likely to have been collected from which of the following areas of the oral cavity?
 - a) Cheeks
 - b) Floor of the mouth
 - c) Lips
 - d) Palate
 - e) Tongue

Key: e

Topic: Oral Physiology

- MCQ.33 During cavity preparation a dentist drills deeply into a tooth and exposes the pulp chamber. The dentist covers the exposed pulp tissue with a calcium hydroxide cement, and reassures the patient. Which of the following cells of the pulp are most likely to be responsible for healing and repair in this area?
 - a) Fibroblast
 - b) Macrophage
 - c) Mast cell
 - d) Odontoblast
 - e) Undifferentiated cell

Key: e

Topic: Oral Physiology

- MCQ.34 Repeated exposure of the teeth to gastric contents (e.g. due to vomiting) may result in which of the following conditions?
 - a) Abrasion
 - b) Attrition
 - c) Caries
 - d) Erosion
 - e) Periodontal disease

Key: d

Topic: Oral Physiology

- MCQ.35 Movement only in the menisco-temporal (upper) compartment of temporomandibular joint takes place in which of the following motions of the mandible?
 - a) Closing fully
 - b) Closing slightly
 - c) Opening slightly
 - d) Opening wide
 - e) Protrusion

Key: e

Topic: Oral Physiology

- MCQ.36 Which of the following is the last succedaneous tooth to erupt?
 - a) Maxillary canine
 - b) Mandibular canine
 - c) Maxillary first premolar
 - d) Mandibular first premolar
 - e) Mandibular third molar

Key: a

Topic: Tooth Morphology

- MCQ.37 The identifying number of the permanent mandibular left second molar in the FDI numbering system is:
 - a) 2
 - b) 17
 - c) 18
 - d) 37
 - e) 52

Key: d

Topic: Tooth Morphology

MCQ.38 The morphology of crown of the tooth is determined at which of the following stages of tooth development?

- a) Bud stage
- b) Cap stage
- c) Early bell stage
- d) Lamina stage
- e) Late bell stage

Key: c

Topic: Tooth Morphology

MCQ.39 Which of the following is generally the longest root of maxillary permanent 1st molar?

- a) Distal
- b) Distobuccal
- c) Mesial
- d) Mesiobuccal
- e) Palatal

Key: e

Topic: Tooth Morphology

MCQ.40 Which of the following sequence of eruption of permanent teeth is normally seen in the maxilla?

- a) 1, 6, 2, 4, 3, 5, 7, 8
- b) 1, 6, 2, 3, 4, 5, 7, 8
- c) 6, 1, 2, 4, 3, 5, 7, 8
- d) 6, 1, 2, 3, 4, 5, 7, 8
- e) 6, 2, 1, 3, 4, 5, 7, 8

Key: c

Topic: Tooth Morphology

MCQ.41 The steepest cusp incline is present in which of the following permanent teeth?

- a) Maxillary first molar
- b) Maxillary first premolar
- c) Mandibular first molar
- d) Mandibular first premolar
- e) Mandibular second molar

Key: b

Topic: Tooth Morphology

MCQ.42 Which of the following is the most poorly developed cusp in maxillary second molar?

- a) Mesiobuccal
- b) Mesiolingual
- c) Distobuccal
- d) Distolingual
- e) Cusp of carabelli

Key: d

Topic: Tooth Morphology

MCQ.43 A Y shaped occlusal groove is most likely to be present in which of the following teeth?

- a) Deciduous premolars
- b) Mandibular first premolar
- c) Mandibular second premolar
- d) Maxillary first premolar
- e) Maxillary second premolar

Key: c

Topic: Tooth Morphology

MCQ.44 The roots of which of the following permanent tooth are normally completely formed by age ten years?

- a) Lower canine
- b) Lower second molar
- c) Lower second premolar
- d) Upper canine
- e) Upper central incisor

Key: e

Topic: Tooth Morphology

MCQ.45 The histology of enamel may be best observed using which of the following methods of slide preparation?

- a) Decalcified H&E stain
- b) Exfoliative cytology
- c) Ground section
- d) H&E stain
- e) PAS stain

Key: c

Topic: Laboratory Assignment