

Entrance Examination for Tokyo Dental College  
Graduate School, Feb 28, 2026

No \_\_\_\_\_ Name \_\_\_\_\_

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**Test 3 Questions 1 to 30. Choose the correct letter, A, B, C, D, or E. Write your answer in the boxes 1-30 below.**

1. The primary function of saliva is:

- A. Tooth eruption
- B. Lubrication and digestion
- C. Enamel formation
- D. Bone remodeling
- E. Cementum repair

2. Dental caries is mainly caused by:

- A. Viruses
- B. Fungi
- C. Trauma
- D. Bacterial acids
- E. Genetics

3. The periodontal ligament connects:

- A. Enamel to dentin
- B. Cementum to alveolar bone
- C. Dentin to pulp
- D. Gingiva to enamel
- E. Bone to bone

4. The normal number of permanent teeth in adults is:

- A. 28
- B. 30
- C. 32
- D. 34
- E. 36

5. The pulp contains:

- A. Ameloblasts
- B. Odontoblasts
- C. Osteoblasts
- D. Cementoblasts
- E. Osteocytes

6. Fluoride primarily helps in:

- A. Whitening teeth
- B. Increasing saliva
- C. Strengthening enamel
- D. Pulp repair
- E. Gingival growth

7. The inflammation of gums is called:

- A. Periodontitis
- B. Gingivitis
- C. Pulpitis
- D. Stomatitis
- E. Alveolitis

8. The part of the tooth visible in the mouth is the:

- A. Root
- B. Apex
- C. Crown
- D. Pulp
- E. Cementum

9. The main inorganic component of enamel is:

- A. Collagen
- B. Hydroxyapatite
- C. Keratin
- D. Elastin
- E. Calcium carbonate

10. The tissue covering the root of the tooth is:

- A. Enamel
- B. Dentin
- C. Cementum
- D. Pulp
- E. Gingiva

11. The main cells responsible for dentin formation are:

- A. Ameloblasts
- B. Osteoclasts
- C. Odontoblasts
- D. Fibroblasts
- E. Cementoclasts

12. The most common site for dental caries is:

- A. Incisal edges
- B. Smooth surfaces
- C. Occlusal pits and fissures
- D. Root apex
- E. Cementoenamel junction

13. The inflammation of dental pulp is called:

- A. Gingivitis
- B. Periodontitis
- C. Pulpitis
- D. Stomatitis
- E. Osteomyelitis

14. The space between the healthy gingiva and tooth is called:

- A. Pulp chamber
- B. Gingival sulcus
- C. Periodontal pocket
- D. Root canal
- E. Foramen

15. Impacted third molars are commonly known as:

- A. Canines
- B. Baby teeth
- C. Wisdom teeth
- D. Premolars
- E. Supernumerary teeth

16. The largest salivary gland is the:

- A. Sublingual
- B. Submandibular
- C. Parotid
- D. Minor salivary gland
- E. Palatine gland

17. The depolarization phase of an action potential is characterized by:

- A. Sodium influx
- B. Sodium efflux
- C. Potassium influx
- D. Potassium efflux
- E. Calcium influx

18. Parasympathetic nerve fibers are carried by the:

- A. Optic nerve
- B. Oculomotor nerve
- C. Trigeminal nerve
- D. Cochlear nerve
- E. Hypoglossal nerve

19. Odontogenic pain is:

- A. Dentinal pain
- B. Myofascial dental pain
- C. Nociceptive dental pain
- D. Atypical odontalgia
- E. Cardiac-related toothache

20. Toothache is caused by the:

- A. Optic nerve
- B. Oculomotor nerve
- C. Trigeminal nerve
- D. Cochlear nerve
- E. Hypoglossal nerve

21. A 35-year-old patient complains of severe pain 3 days after extraction of a mandibular molar. The socket appears empty with exposed bone and foul odor. The most likely diagnosis is:

- A. Acute osteomyelitis
- B. Periapical abscess
- C. Dry socket (alveolar osteitis)
- D. Cellulitis
- E. Pericoronitis

22. A patient presents with spontaneous, lingering pain to hot stimuli that persists after removal of the stimulus. The most likely pulpal diagnosis is:

- A. Reversible pulpitis
- B. Irreversible pulpitis
- C. Pulp necrosis
- D. Chronic apical periodontitis
- E. Dentin hypersensitivity

23. A 50-year-old diabetic patient presents with mobile teeth, deep periodontal pockets (7 mm), and radiographic bone loss. The most likely diagnosis is:

- A. Gingivitis
- B. Aggressive periodontitis
- C. Chronic periodontitis
- D. Periapical abscess
- E. Cemental dysplasia

24. A 25-year-old patient complains of sharp pain when eating sweets. The pain subsides immediately after removing the stimulus. The most likely diagnosis is:

- A. Irreversible pulpitis
- B. Reversible pulpitis
- C. Pulp necrosis
- D. Acute apical abscess
- E. Cracked tooth syndrome

25. The primary etiologic factor in aggressive periodontitis is:

- A. Poor oral hygiene alone
- B. Trauma from occlusion
- C. *Actinobacillus actinomycetemcomitans*
- D. Vitamin C deficiency
- E. Smoking only

26. A 35-year-old male presents with severe, spontaneous pain in the mandibular left molar region, radiating to the ear. Pain is worse at night and relieved temporarily by analgesics. Cold test elicits a lingering response, and percussion is positive. Radiograph shows no periapical radiolucency. Most likely diagnosis:

- A. Reversible pulpitis
- B. Symptomatic irreversible pulpitis
- C. Pulp necrosis
- D. Acute periapical abscess
- E. Trigeminal neuralgia

27. A 45-year-old man reports persistent dry mouth, burning sensation, and difficulty swallowing. Examination reveals atrophic, erythematous mucosa with decreased salivary flow. Schirmer's test is positive. Most likely diagnosis:

- A. Oral lichen planus
- B. Sjögren's syndrome
- C. Burning mouth syndrome
- D. Candidiasis
- E. Diabetes mellitus-related xerostomia

28. A 40-year-old man presents with a non-healing ulcer on the lateral border of the tongue. He is a chronic smoker. The lesion is indurated, non-tender, and approximately 2 cm in diameter. No cervical lymphadenopathy is present. Most likely diagnosis:

- A. Traumatic ulcer
- B. Oral candidiasis
- C. Leukoplakia
- D. Squamous cell carcinoma
- E. Lichen planus

29. A patient presents with pain on biting and mild sensitivity to cold. There is a visible crack in the tooth. The most likely diagnosis is:

- A. Irreversible pulpitis
- B. Cracked tooth syndrome
- C. Periodontitis
- D. Pulp necrosis
- E. Periapical abscess

30. The hallmark clinical feature of chronic periodontitis is:

- A. Toothache to cold
- B. Mobility of teeth and pocket formation
- C. Gingival bleeding only
- D. Periapical radiolucency
- E. Facial swelling

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Test 3 Answer Sheet

No                      Name \_\_\_\_\_

**Write your answer in the boxes 1-30 below.**

Allocated 1 points for each (30 points in total).

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30