

Vocational Practical Question Bank
Second Year
Dental Technician
Course Code: 610

State Institute of Vocational Education
o/o the Commissioner of Intermediate Education
Telangana, Hyderabad

&

Board of Intermediate Education,
Telangana, Hyderabad

**DENTAL TECHNICIAN
SECOND YEAR
QUESTION BANK
SUBJECT: DENTAL MECHANICS (FINAL)
PAPER – I**

Time: 3 Hours

Max Marks: 50

Section - I

(1x8=8 Marks)

1. Write in detail about the Crown in Dentistry- Definition, classification, materials used for fabrication of crowns, advantages.
2. Describe the different types of Bridges in Dentistry, uses, material used, difference between crown and bridge.
3. Write in detail about Casting – Definition, types, material and uses.
4. Describe the Casting Techniques.
5. Write in detail about the spurring – definition, types, methods, Defects causes.
6. Describe Abutments – definition, types, material used and indications and contraindications.

Section – II

(1x8=8)

7. Write in detail about the wax pattern fabrication.
8. Explain Investing Stages.
9. Describe Burn Out procedure- procedure/stages, purpose, failure reasons
10. Write about Bridge Retainers.
11. Describe Mouth guards- definition, indications, material , contraindications.
12. Definition, classification, parts, types of Pontics.

Section – III

(1x8=8)

13. Wax pattern preparation – Maxillary First Molar.
14. Wax Pattern preparation – Mandibular First Molar.
15. Wax Pattern Preparation – Maxillary Central Incisor.
16. Wax Pattern Preparation – Mandibular Central Incisor.
17. Wax Pattern Preparation – Maxillary Canine.
18. Spurring of the Wax Pattern.

Section – IV

(2x4=8)

19. (a)Casting Machines
(b)Types of Sprue
20. (a)Difference between Crown & Bridge.
(b)Types of Partial Dentures

21. (a) Difference between Immediate Dentures and Over Dentures
(b) Bridge retainers two purposes
22. (a) Differences between the FPD & RPD
(b) Splints –two purposes
23. (a) Differences between the centrifugation casting and pressure casting
(b) Casting furnace purpose
24. (a) Differences between Casting and Investing
(b) Two purposes of Finishing and Polishing

Section – V (Spotters)

(4x2=8)

25. (a) Wax Pattern – Maxillary First Molar
(b) Wax Carver
(c) Partial Denture
(d) Metal Crown Single Unit
26. (a) Three Unit Bridge
(b) Direct Sprue
(c) Die
(d) Complete Denture
27. (a) Inlay Wax
(b) Indirect Sprue
(c) Wax Pattern
(d) Ceramic Crown
28. (a) Stone Bur
(b) Wax Pattern
(c) Casting Liner
(d) Inlay
29. (a) Onlay pattern
(b) Indirect Sprue
(c) Dampen Dish
(d) 3 unit FPD
30. (a) Burner
(b) Direct Sprue
(c) Wax Pattern
(d) CD(Complete Denture)

**DENTAL TECHNICIAN
SECOND YEAR
MODEL QUESTION PAPER
SUBJECT: DENTAL MECHANICS (FINAL)
PAPER – I**

Time: 3 Hours

Max Marks: 50

Section - I

(1x8=8 Marks)

6. Describe Abutments – definition, types, material used and indications and contraindications.

Section- II

(1x8=8)

11. Describe Mouth guards- definition, indications, material , contraindications.

Section – III

(1x8=8)

14. Wax Pattern preparation – Mandibular First Molar

Section – IV

(2x4=8)

22.(a)Differences between the FPD & RPD

(b)Splints –two purposes

Section – V (Spotters)

(4x2=8)

27. (a) Inlay Wax

(b) Indirect Sprue

(c) Wax Pattern

(d)Ceramic Crown

Section – VI

Record

5 Marks

Viva

5 Marks

Note: The Serial numbers of the question mentioned above are the serial numbers in the question bank. In practical examination only the serial number of the questions will be given, the examiner shall decode it with the question bank and give the questions.

DENTAL TECHNICIAN
SECOND YEAR
PRACTICAL SCHEME OF VALUATION
SUBJECT: DENTAL MECHANICS (FINAL)
PAPER – I

Time: 3 Hours

Max Marks: 50

Section - I, II Major Question

(1x8=8 Marks)

- | | | |
|---------------------------------|---|---------|
| 1. Classification/Principle | : | 2 marks |
| 2. Purpose/Material/Examples | : | 1 mark |
| 3. Examples /objectives/formula | : | 2 marks |
| 4. Purpose/method/Description | : | 3 marks |

Section – III Major Question

(1x8=8)

- | | | |
|----------------|---|---------|
| 1. Neatness | : | 2 marks |
| 2. Fabrication | : | 6 marks |

Section – IV

(2x4=8)

- | | | |
|---------------------|---|---------|
| 1. Differences | : | 2 marks |
| 2. Purpose/function | : | 2 marks |

Section – V (Spotters)

(4x2=8)

- | | | | |
|-------------------|---|-------------------|---------|
| 1. Identification | } | (a)/(b)/(c)/(d) : | 2 marks |
| 2. Uses | | : | 2 marks |

Section – VI

Record : **5 Marks**

Viva : **5 Marks**

**DENTAL TECHNICIAN
SECOND YEAR
QUESTION BANK
SUBJECT: ORTHODONTICS
PAPER – II**

Time: 3 Hours

Max Marks: 50

Section - I

(1x8=8 Marks)

1. Write the Aim, Needs for Orthodontic Treatments & Services provided.
2. Angle's System Of classification.
3. Andrew's six Keys to normal Occlusion.
4. Types of Tooth Movements & Anchorage.
5. Components of Removable Appliances & Classification of Arch Wires.
6. Write the names of the instruments required for wire bending & Write different types of Clasps.

Section – II

(1x8=8)

7. Write about Adam's Clasp, draw and label its parts.
8. Draw and write about short Labial Bow, Write the different types of Bows.
9. Types of Springs, Draw and write about Finger Spring.
10. Classification Chart of Space Maintainer and Write Different types of Space Maintainers.
11. Draw and write about Distal Shoe.
12. Describe Orthopaedic appliances and write different types of it.

Section – III

(1x8=8)

13. Short labial Bow fabrication on Maxillary study Model/Cast.
14. Short Labial Bow fabrication on Mandibular study Model/Cast.
15. Long Labial Bow fabrication on Maxillary study Model/cast.
16. Long Labial Bow fabrication on Mandibular Study Model/Cast.
17. Adam's Clasp fabrication on Maxillary First Molar.
18. Canine Retractor fabrication on Maxillary Right Canine.

Section – IV

(2x4=8)

19. a) Type of Tooth Movements
(b) Define Angle's Class I malocclusion
20. (a) Define Curve of Monsoon & Spee
(b) Phases of Tooth Movement
21. (a) Types Of Anchorage
(b) Name the Passive components of Fixed Appliances

- 22.(a)Types of Springs & parts of a Spring.
(b)Name the Modified Adam's Clasps
- 23.(a)Name the different types of Myofunctional Appliances
(b)Catalan's Appliance
- 24.(a)Types of Bite Planes
(b)Oral Screen

Section – V (Identification/Spotters)

(4x2=8)

- 25.(a)Adam's Clasp
(b) Universal Plier
(c)Oral Screen
(d)Arch Wire
- 26.(a) Finger Spring
(b)Bionater appliance
(c) Wire Cutter
(d)Band & Loop Space Maintainer
- 27.(a) Transpalatal Arch
(b)C-Clasp
(c)Blue Green Appliance
(d)Short Labial Bow- Maxillary/Mandibular
- 28.(a)Solder
(b)Adam's Clasp
(c)Long Labial Bow – Maxillary/Mandibular
(d)Universal Plier
- 29.(a)Oral Screen
(b)Adam's Clasp
(c)Short Labial Bow – Maxillary/Mandibular
(d)Flux
- 30.(a) Tongue Crib
(b) Distal Shoe
(c) Finger spring
(d) Arch Wire

Section – VI

(5x2=10)

Record

5 Marks

Viva

5 Marks

**DENTAL TECHNICIAN
SECOND YEAR
MODEL QUESTION PAPER
SUBJECT: ORTHODONTICS
PAPER – II**

Time: 3 Hours

Max Marks: 50

Section - I

(1x8=8 Marks)

3. Andrew's six Keys to normal Occlusion.

Section- II

(1x8=8)

10. Classification Chart of Space Maintainer and Write Different types of Space Maintainers.

Section – III

(1x8=8)

13. Short labial Bow fabrication on Maxillary study Model/Cast.

Section – IV

(2x4=8)

20. (a) Define Curve of Monsoon & Spee
(b) Phases of Tooth Movement

Section – V (Spotters)

(4x2=8)

28. (a) Solder
(b) Adam's Clasp
(c) Long Labial Bow – Maxillary/Mandibular
(d) Universal Plier

Section – VI

(5x2=10)

Record

5 Marks

Viva

5 Marks

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**DENTAL TECHNICIAN
SECOND YEAR
PRACTICAL SCHEME OF VALUATION
SUBJECT: ORTHODONTICS
PAPER – II**

Time: 3 Hours

Max Marks: 50

Section - I, II Major Question (1x8=8 Marks)

- | | | |
|------------------------------------|---|---------|
| 1. Aim/ Classification/Diagram | : | 2 marks |
| 2. Needs/ Types/ Labelling | : | 2 marks |
| 3. Labelling /components/Services | : | 2 marks |
| 4. Purpose/method/Description/Uses | : | 2 marks |

Section – III Major Question (1x8=8)

- | | | |
|--------------------|---|---------|
| 1. Instrumentation | : | 1 marks |
| 2. Neatness | : | 1 marks |
| 3. Fabrication | : | 6 marks |

Section – IV (2x4=8)

- | | | |
|-------------------------------|---|---------|
| 1. Types/Name | : | 2 marks |
| 2. Description/Classification | : | 2 marks |

Section – V (Spotters) (4x2=8)

- | | | | |
|-------------------|---|-------------------|---------|
| 1. Identification | } | (a)/(b)/(c)/(d) : | 2 marks |
| 2. Uses | | : | 2 marks |

Section – VI

- | | | |
|---------------|---|----------------|
| Record | : | 5 Marks |
| Viva | : | 5 Marks |

**DENTAL TECHNICIAN
SECOND YEAR
QUESTION BANK
SUBJECT: DENTAL METALLURGY
PAPER – III**

Time: 3 Hours

Max Marks: 50

Section - I

(1x8=8 Marks)

1. Define – Strength, Ductility, Density, and Hardness of Dental Materials.
2. Write the Biological Properties of Dental Material.
3. Describe the metal Silver and its uses in Dentistry.
4. Classification of Gold Alloy by Function.
5. Describe Annealing.
6. Write in detail about Fluxes – definition, function, types and uses.

Section – II

(1x8=8)

7. Principles of Soldering and types of Soldering.
8. Define Anti-Fluxes and Types of Anti-Fluxes.
9. Define Welding and Steps in welding.
10. Define Soldering and Steps in Soldering.
11. Define Tarnish, and reasons of occurrence in oral cavity.
12. Define Corrosion, Types, occurrence, acids responsible for corrosion, components of electrolytic cell.

Section – III

(1x8=8)

13. Wax pattern preparation – Maxillary First Molar.
14. Wax Pattern preparation – Mandibular First Molar.
15. Wax Pattern Preparation – Maxillary Central Incisor.
16. Wax Pattern Preparation – Mandibular Central Incisor.
17. Wax Pattern Preparation – Maxillary Canine.
18. Spurring of the Wax Pattern.

Section – IV

(2x4=8)

19. (a) silver Alloy
(b) Hazards from Dental Material
20. (a) Write the Names of the Physical Properties of the Dental Materials
(b) Write the composition of Fluxes
21. (a) What are the principles of Soldering
(b) Write about Stainless Steel Alloy and its types
22. (a) Write About Austenitic Stainless Steel
(b) Define Tempering
23. (a) Hardening Heat Treatment
(b) Physical Properties of Dental Material
24. (a) Density, Malleability
(b) Ductility, Stress, Strain, Proportional limit

Section – V (Spotters)

(4x2=8)

- 25.(a)Stainless Steel Alloy
(b)Flux
(c)Solder
(d)Tempering Colours sheet
- 26.(a)Anti-Flux
(b)Solder
(c)Stainless Steel Alloy
(d)Blow Pipe
- 27.(a) Gas Lighter
(b)Solder
(c)Flux
(d)Welding Machine
- 28.(a)Solder
(b)Flux
(c)Stainless Steel Alloy
(d)Needles
- 29.(a)Electrolytic Cell
(b)Solder
(c)Welding Machine
(d)Anti-flux
- 30.(a)Welding Machine
(b)Solder
(c)Stainless Steel Alloy
(d)Flux

Section – VI

(5x2=10)

Record

5 Marks

Viva

5 Marks

**DENTAL TECHNICIAN
SECOND YEAR
MODEL QUESTION PAPER
SUBJECT: DENTAL METALLURGY
PAPER – III**

Time: 3 Hours

Max Marks: 50

Section - I

(1x8=8 Marks)

6. Write in detail about Fluxes – definition, function, types and uses

Section- II

(1x8=8)

12. Define Corrosion, Types, occurrence, acids responsible for corrosion, components of electrolytic cell.

Section – III

(1x8=8)

15. Wax Pattern Preparation – Maxillary Central Incisor.

Section – IV

(2x4=8)

24. (a) Density, Malleability
(b) Ductility, Stress, Strain, Proportional limit

Section – V (Spotters)

(4x2=8)

30. (a) Welding Machine
(b) Solder
(c) Stainless Steel Alloy
(d) Flux

Section – VI

(5x2=10)

Record

5 Marks

Viva

5 Marks

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**DENTAL TECHNICIAN
SECOND YEAR
PRACTICAL SCHEME OF VALUATION
SUBJECT: DENTAL METALLURGY
PAPER – III**

Time: 3 Hours

Max Marks: 50

Section - I,II Major Question

(1x8=8 Marks)

- | | | |
|----------------------------------|---|---------|
| 1. Definition/principles | : | 2 marks |
| 2. Function/uses/Types | : | 2 mark |
| 3. Type /classification/formula | : | 2 marks |
| 4. Purpose/parts/uses/components | : | 2 marks |

Section – III Major Question

(1x8=8)

- | | | |
|--------------------|---|---------|
| 1. Instrumentation | : | 1 mark |
| 2. Neatness | : | 1 mark |
| 3. Fabrication | : | 6 marks |

Section – IV

(2x4=8)

- | | | |
|---------------|---|---------|
| 1. Definition | : | 2 marks |
| 2. Formula | : | 2 marks |

Section – V (Spotters)

(4x2=8)

- | | | | |
|-------------------|---|-------------------|---------|
| 1. Identification | } | (a)/(b)/(c)/(d) : | 2 marks |
| 2. Uses | | : | 2 marks |

Section – VI

(5x2=10)

- | | | |
|---------------|---|----------------|
| Record | : | 5 Marks |
| Viva | : | 5 Marks |