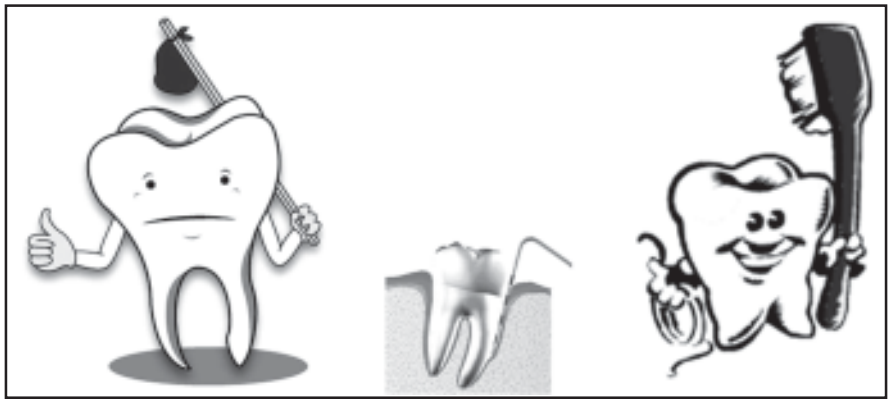
# Dental Supreme

## SOLVED QUESTION PAPERS OF PERIODONTOLOGY AND ORAL IMPLANTOLOGY

**2001 – 2010**



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*Foreword*
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**Dental Supreme—Solved Question Papers of Periodontology and Oral Implantology**

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## Dedicated to

MY MOM AND DAD
(Mr Diwakar Rao Kulkarni and Mrs Deepa Diwakar Rao Kulkarni)
Who are my worship, they are a lot for me
I am thankful to God that he gave me such a loving parents
And also this book is dedicated to my lovely sister *Disha*

# Foreword

It gives me immense pleasure, happiness and feels proud to see Dr Dinraj Kulkarni, my student, later junior staff, working in my unit. He has written this solution book named *Dental Supreme—Solved Question Papers of Periodontology and Oral Implantology.* A lot of meticulous work has gone into this, and the labor will be fruitful if the students for whom it I intended enjoy the book, and come out with flying colors.

It is precise unique and it is the key book for most of the questions that the students commonly come across during the examination time. I have seen the evolution of this book from conceptual stage to the present state. Its format of flow charts and questions and answer forms in which, it has been presented makes it, an ideal companion for examination going under-graduate students. I feel proud to write this foreword.

I sincerely hope that this book will achieve the objectives and will get its due sure of success in forthcoming year and fulfill the expectation of examination going undergraduate students.

**H Mohammed Honnur**
Principal and Head
Department of Oral and Maxillofacial Surgery
HKDET's Dental College and Hospital and Research Institute
Humnabad, Karnataka, India

# Preface

This solved question papers of Rajiv Gandhi University of Health Sciences (RGUHS) provides comprehensive idea about the principles and procedures involved in the removable partial denture and fixed partial denture.

When I was in my BDS IVth year, I could see a large number of good books in the subject of periodontics, but I hardly found any book which focused on examination point of view.

During the examination period when I was facing difficulty to cover the whole book, that too within a day it is a very difficult task for me and I even saw juniors of mine are also facing the same problem and also success of my previous book, i.e. *Dental Success* inspires me to write this book, i.e. *Dental Supreme* and to help the students and make it easy task and to remove the burden from the students.

The questions of periodontics are always tricky and are somewhat lengthy, but from few years the question papers of periodontics are really difficult and tricky and it will be difficult for students to present the answers as per marks allotted, so I thought to give my best to prepare this book.

When I began to write the book, I had following goals to fulfill:

- The book should cover the subject almost thoroughly and also simple to read and should be arranged in a pointwise manner and also answers given as per marks allotted.
- Understand at the first glance.
- I followed the books which the Rajiv Gandhi University prescribes and also some international editions and the journals to fulfill the answers completely.

While preparing this book lot of care has been taken to cover previous year question papers and this book also contains the *24 Question Papers of Rajiv Gandhi University of Health Sciences (RGUHS) from 2001 to 2010 with very recent question papers and explanatory answers.*

**The important things about this book is:**

- Contains more than 40 color atlas of periodontics for easy-reference
- Easy drawable diagrams
- The flow charts which makes easy for students to remember and present and the tables wherever necessary
- Some mnemonics and in column notes.

**Dinraj Kulkarni**
dinrajkulkarni4@gmail.com

# Acknowledgments

I always dreamt of presenting the solved question papers of Rajiv Gandhi University to the students.

First and foremost I have to thank "the supreme power of God" for giving me inspiration, courage to complete this task and to make the dream come true. Without god's blessing it is not possible.

Next I have to thanks to my Mom and Dad, they are my GOD who inspired me a lot and gave me all the needs to prepare the book and without their love, it is not possible for me to write this book.

# *Proverb for Students*

*Hard work is like a climbing up stairs*
*and*
*Luck is like a Lift*
*The lift may fail at any time*
*but*
*Staircase will definitely take you*
*to the top.*
*So always work hard*

**Dinraj Kulkarni**

# *Few Study Tips for Students*



OHHHH Headache—How to Remember

### General Study Tips

- It is a good idea to rewrite the notes of the day in the evening. This will help clear up important points, and make the writing more legible. Change abbreviated words and sentences into full sentences. Read through your notes daily.
- Set early deadlines. That way you would not have fallen behind when you are close to the examination or when the assignment is due. Break the assignment into parts, so that you do not feel too overwhelmed by the workload. Give yourself appropriate rewards as you finish your assignments.
- There is often different kind of groups at collages to help you with any problems you might have. If there is none that fit your needs, you could form your own study group with your friends. This will also assure you that you have all the information necessary.

### Study Tips for Class Preparation

Read the upcoming chapter before the lecture. Take notes so that you only need to add important information, and know what questions you need to ask. Go through the information from previous lectures, so that the information is fresh in your mind and will help you prepare for your next class.



Thinking how to get a tips to remember and concentrate

### Study Tips While in Class

- While you are in class, sit in the same spot each time. If you do this, your body will know that this is where you learn and your concentration will improve.
- Illustrations can help you learn easier. Depending on what kind of subject you are studying, it could be a good idea to may be made a diagram or a timeline. Color-codes are also a good way to keep information separate and to learn easier.
- If you are bored, it is extra important to take notes. The notes will help you stay focused. Should your professor speak faster than you can take notes, ask him or her if you can bring a tape recorder. When you have the lecture on tape, you can listen to it repeatedly, or just fill in what you have missed in your information.

- It is good to abbreviate words that you use often, as it will help you write faster.
  *Note:* Your teacher will often give hints on what is most important in the lecture. This information is repeated often. If there is anything you find unclear, draw a question mark next to the note, and either ask your classmates or professor for further explanation after the lecture.

### Study Tips while Preparing for an Examination

- The main thing during examination is keep your cool as much as possible.
- Read only the questions which you feel hard or difficult to remember and do not go for those questions or things you never read before, because by taking that in mind you may loose whatever is there in your mind so repeat only those things which are most important for examination and also those questions which will give you confidence rather than loosing confidence.
- Do not cram, you need your sleep and will only remember the first and last half an hour of what you read. Write a page of notes the night before. When you receive the test, write as much as you can remember of this down. Answer the questions you are sure of first. Leave the rest for last.



Finally I got an ideal, i.e. follow the above tips

# Syllabus of Periodontology

- AIDS — AIDS and the periodontium.
- Risk factors—Dentition, risk factors for periodontal diseases. Smoking and periodontal diseases, rote of stress factors.
- Genetic factors —Genetic factors associated with periodontal disease.
- Host response—Mechanism of initiation and progression of periodontal disease, basic concepts cells, Mast cells. Neutrophils, macrophages, lymphocytes, immunoglobulin, complement, immune mechanisms and cytokines in brief.
- Stages in Gingivitis—Initial, early established, advanced periodontal' disease activity continuous paradigm, random burst and asynchronous multiple burst hypothesis.
- Furcation involvement— Furcation involvement. Various classifications, prognosis and management.
- Bone loss patterns —Bone loss and patterns of bone destruction in periodontal disease.
- Diagnosis—Routine procedures, methods of probing types of probes—case history halitosis, etiology and treatment.
- Radiographic aids—Radiographs—AIDS in the diagnosis of periodontal diseases.
- Advanced diagnostic AIDS—Their role in brief.
- Prognosis—Definition, types, purpose and factors.
- Treatment plan—Factors to be considered.
- Rationale for periodontal therapy—Regeneration, repair, re-attachment, new attachment.
- Plaque control
  - Mechanical—Toothbrushes, Inter-dental cleansing aids, Dentifrices
  - Chemical—Classification and Mechanism of action of each, Pocket irrigation.
- Chemotherapeutic agents—Various chemotherapeutic agents used in periodontal therapy.
- Periodontal treatment of medically compromise patients
  - Different systemic conditions and their effects on the periodontium. Management of patients with the various systemic complications.
- Per iodontal therapy in the female patient—PDL changes associated with puberty, menopause, pregnancy, oral contraceptives.
- Periodontal therapy— General principles of periodontal therapy.
- Preparation of the patient for surgical therapy.
- Pocket eradication—Scaling and root planning procedures. Indications, aims and objectives armamentarium and procedure healing following root planning.
- Curettage and present concepts—Definition, Indication, aims and objectives procedures and healing. Gingivectomy / gingivoplasty including crown lengthening procedure.
  - Definition
  - Indication and contraindication
  - Armamentarium, procedure and healing.
- Flap Surgery—Definition of flap; types of flap (Design of flap papilla preservation); Pocket eradication, indications, armamentarium, surgical procedure and healing.
- Osseous surgery— Definition; resective and additive osseous surgery (Osseous grafts, classification of grafts) healing; other regenerative procedures root conditioning. Guided tissue regeneration.
- Mucogingival surgery— Definition; mucogingival problems, etiology and classification of gingival recession (PD Miller Jr and Sullivan and Atkins) Indications, various mucogingival surgical procedures.
- Occlusion—Occlusal evaluation and therapy.
- Microsurgery—Periodontal microsurgery in brief, electrosurgery, cryosurgery.
- Splints—Periodontal splints—purpose, classification principles of splinting.
- Hypersensitivity—Causes, theories and management.
- Implants—Definition. Types, scope, biomaterials used. Periodontal considerations such as implant gingiva and implant-bone interface. Implant failure, Peri-implantitis and management. Advanced surgical techniques.

- Periodontal medicine — PDL infection associated with various systemic diseases.
- Host modulation therapy— Principles, agents used.
- Lasers—Lasers in periodontal therapy.
- Supportive periodontal therapy—Definition, rationale. Patient classification factors affecting SPT, implant maintenance.
- Pharmacotherapy—Periodontal dressing's antibiotics and anti-inflammatory drugs—local drug delivery.
- Pulpoperiodontal Lesions— Pulpoperiodontal involvement—Routes of spread of infection management.
- Evidence-based decision making— Assessing evidence, implementing evidence-based decisions in clinical practice.
- Patient management—Ethical, legal and practical issues in the management of periodontal patients.

**SCHEME OF EXAMINAION**

| Contents | Type of questions and marks | |
|---|---|---|
| Periodontal ligament, occlusal and periodontal health, plaque and its management, calculus advanced diagnostic aids, treatment plan, prognosis, trauma from occlusion, periodontal pockets. Acute infections of gingiva, classification of periodontal diseases and any one in detail diagnosis, prognosis, surgical periodontal therapy, gingivoplasty, gingivectomy, flap surgeries, resective osseous surgery, mucogingival surgery, antibiotics and anti-inflammatory drugs. | **Long essay** | |
| | **RS2**<br>2 × 10 = 20 | **RS3**<br>2 × 10 = 20 |
| Cementum, Alveolar bone, defense mechanisms of gingiva, Classification of periodontal disease, Plaque and its hypothesis, calculus, plaque control, altered leukocyte mechanisms, ANUG, habits, aids in periodontium, mechanism of spread of infection, Indices—Gingival and periodontal, furcation involvement, gingival recession, antibiotics in periodontia, host response, rational of periodontal therapy implants, supporting periodontal therapy. | **Short essay** | |
| | **RS2**<br>10 × 5 = 50 | **RS3**<br>6 × 5 = 30<br>Or<br>8 × 5 = 40 |
| Questions may be asked from all topics | **Short essay** | |
| | **RS2**<br>10 × 3 = 30 | **RS3**<br>10 × 2 = 20<br>Or<br>5 × 2 = 10 |

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