

QP Code: PCN101

**MDS[Prosthodontics and Crown & Bridge]
[PART- I]**

BF / 2024 / 06

Applied Basic Sciences

[Paper-I]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note: 1.) *Attempt all questions.*
2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

1. Masticatory muscles and their role in Prosthodontics. [10]
 2. Discuss the role of trace elements in the formation of dental tissues. [10]
 3. Systemic and local factors affecting bone resorption. [10]
 4. Infection control in Prosthodontics work station. [10]
 5. Discuss randomization in the scientific research. [10]
 6. Local anesthetics used in Prosthodontics. [10]
 7. Age changes in Jaw bones. [10]
 8. Discuss applications of elastic impression dental materials. [10]
 9. Pre-prosthetic surgical procedures before fabrication of mucosa borne complete removable prosthesis. [10]
 10. Discuss blood clotting mechanism and how it is achieved in surgical phase of Prosthodontic treatment. [10]
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QP Code: PCN102

**MDS[Prosthodontics and Crown & Bridge]
[PART- II]**

BF / 2024 / 02

**Removable Prosthodontics and Implant supported prosthesis,
Geriatric Dentistry and Cranio Facial Prosthodontics
[Paper-I]
[New Regulations w.e.f.2018 admission]**

Time :3 Hours

Max Marks. :100

Note: 1.) *Attempt all questions.*
2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
3.) *The Student must write O.P. Code in the space provided on the Title Page of the Answer Book.*

1. Define Overdenture. Write Advantage & Disadvantage of Overdentures. Write in Detail about different attachments used in Overdentures. [25]
2. Classify Maxillary defects. Give management of maxillary defects in Mucormycosis patients. [25]
3. **Short essay on :** [10x5=50]
 - (a) Centric relation
 - (b) Mouth preparation for cast partial denture
 - (c) Relining & Rebasing
 - (d) Indirect retainer in cast partial denture
 - (e) Osseointegration in Dental Implants

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**MDS[Prosthodontics and Crown & Bridge]
[PART- II]**

BF / 2024 / 02

**Fixed Prosthodontics, Occlusion, TMJ and Esthetics
[Paper-II]
[New Regulations w.e.f.2018 admission]**

Time : 3 Hours

Max Marks. : 100

- Note:**
- 1.) *Attempt all questions.*
 - 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
 - 3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

1. Discuss the current concept on effectiveness of splint in management of Temporomandibular disorders?
[25]
2. Discuss management of a case of full mouth rehabilitation suffering from Nocturnal bruxism?
[25]
3. **Short essay on :** [10x5=50]
 - (a) Recent advances in Shade selection
 - (b) Conventional versus Digital impression
 - (c) Articulating Paper
 - (d) Monolithic versus Layered Zirconia
 - (e) Digital Occlusal Analysis

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**MDS[Prosthodontics and Crown & Bridge]
[PART- II]**

BF / 2024 / 02

Descriptive and Analysing Type Question

[Paper-III]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

- Note:*
- 1.) *Attempt any TWO questions out of THREE questions.*
 - 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
 - 3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

Attempt any TWO questions:

[50 x 2= 100]

1. Recent advances in Esthetic materials used in Dentistry.
2. Failures in Implant Dentistry
3. “Dental Ceramics” their applications in Prosthodontics.

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MDS[Periodontology]

[PART- I]

BF / 2024 / 06

Applied Basic Sciences

[Paper-I]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) **The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.**

1. Describe the parts of Gingival Epithelium. [10]
2. Write a note on Nerve supply of Tongue. [10]
3. Enumerate and describe the functions of Proteins. [10]
4. Discuss role of Antibiotics in Periodontics. [10]
5. Discuss Immunoglobulins and basic Antigen-Antibody Reaction. [10]
6. Describe role of Vitamin C in Periodontal Health. [10]
7. What is Null Hypothesis. [10]
8. Write a note on Animal Models. [10]
9. Define Shock. Describe the Pathophysiology of Shock. [10]
10. Describe Pain Pathways. [10]

**MDS[Periodontology]
[PART- II]**

BF / 2024 / 02

**Normal Periodontal Structure, Etiology and Pathogenesis of
Periodontal Diseases, Epidemiology as Related to Periodontics**
[Paper-I]

[New Regulations w.e.f. 2018 admission]

Time : 3 Hours

Max Marks. : 100

- Note:*
- 1.) *Attempt all questions.*
 - 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
 - 3.) *The Student must write O.P. Code in the space provided on the Title Page of the Answer Book.*

1. Write about the influence of periodontal disease on systemic health of the patient.

[25]

2. Define inflammation. Discuss various inflammatory mediators in periodontal disease.

[25]

3. **Short essay on:** [10x5=50]

- (a) Dental Calculus and its role in the etiology of Periodontitis
- (b) Stress and Periodontal Diseases
- (c) Non Plaque induced Gingival Lesions
- (d) Microbial Complexes
- (e) Standard Deviation

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MDS[Periodontology]

[PART- II]

BF/2024/02

Periodontal Diagnosis, Therapy and Oral Implantology

[Paper-II]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

1.) *Attempt all questions.*

2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*

3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

1. Describe the various approaches for Maxillary Sinus lift. Add a note on its complications and management.

[25]

2. Classify Endo- Perio Lesions. Describe the treatment of these lesions.

[25]

3. **Short essay on :**

[10x5=50]

- (a) Collagen Membranes
- (b) Management of Peri- implantitis
- (c) Reconstruction of Inter Dental Papillae
- (d) LASERS in Periodontal Therapy
- (e) Host Modulation Therapy

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MDS[Periodontology]

[PART- II]

BF/2024/02

Descriptive and Analysing Type Question

[Paper-III]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt any **TWO** questions out of **THREE** questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) ***The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.***

Attempt any TWO questions:

[50 x 2= 100]

1. Discuss Periodontal microsurgery versus conventional surgery.
2. Role of Viruses in pathogenesis of Periodontitis
3. Discuss in detail about concepts of pathogenesis of Periodontal disease.

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**MDS[Oral & Maxillofacial Surgery]
[PART- I]**

BF/2024/06

Applied Basic Sciences

[Paper-I]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

1.) *Attempt all questions.*

2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*

3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

1. Give the surgical anatomy of the Tongue. [10]
 2. Describe the lymphatic supply and drainage of the Head, Face and Neck region. [10]
 3. Describe the surgical anatomy of the Sternocleidomastoid muscle and its law applications. [10]
 4. Discuss in detail the physiology of Hypovolemic shock mechanism. [10]
 5. What is Xerostomia? Discuss its possible causes and its management.[10]
 6. What is disseminated intra vascular coagulation. Discuss its management. [10]
 7. What is Extra- pulmonary tuberculosis and its management in general. [10]
 8. What are Fungal infections. Discuss in length about Mucormycosis involving the Oro- facial region. [10]
 9. Give an account of Odontogenic cysts involving the Jaw bones. [10]
 10. Describe routine and advanced imaging techniques and their applications. [10]
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QP Code: OSN102

**MDS[Oral & Maxillofacial Surgery]
[PART- II]**

BF/2024/02

Minor Oral Surgery and Trauma

[Paper-I]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) **The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.**

1. Describe etiology, clinical features and management of Bilateral condylar fractures in children.
[25]
2. Discuss etiology, clinical features and treatment of Lateral pharyngeal space infection.
[25]
3. **Short essay on :** [10x5=50]
 - (a) Nasogastric Tube
 - (b) Plunging Ranula
 - (c) Clark's Vestibuloplasty
 - (d) Toxicity of Lidocaine Hydrochloride
 - (e) CSF Rhinorrhoea

QP Code: OSN103

**MDS[Oral & Maxillofacial Surgery]
[PART- II]**

BF/2024/02

Maxillo- facial Surgery

[Paper-II]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) **The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.**

1. Define TMJ Ankylosis. Describe management of a 10 years old patient with Bilateral TMJ Ankylosis and Sleep Apnoea in detail.
[25]
2. Define Cyst. Describe Cystic Lesions of Maxillofacial Region. Discuss clinical features, diagnosis and management of Odontogenic keratocyst in detail.
[25]
3. **Short essay on :** [10x5=50]
 - (a) Sialography
 - (b) LASER application in Maxillofacial Lesions
 - (c) Genioplasty
 - (d) Methods of Biopsy
 - (e) Distraction Osteogenesis

QP Code: OSN104

MDS[Oral & Maxillofacial Surgery]
[PART- II]

BF/2024/02

Descriptive and Analysing Type Question

[Paper-III]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt any **TWO** questions out of **THREE** questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) ***The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.***

Attempt any TWO questions:

[50 x 2= 100]

1. Discuss the cause of Oro-antral fistula and various methods of repair and selection criteria.
2. Discuss the various guidelines and principles involved in treating Carcinoma of the Oral cavity.
3. Classify Condylar fractures. How will you diagnosis and treat Bilateral malunited condylar fracture ?

QP Code: CDN102

**MDS[Conservative Dentistry and Endodontics]
[PART- II]**

BF/2024/02

**Conservative Dentistry
[Paper-I]
[New Regulations w.e.f.2018 admission]**

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

1. How have the restoration preferences been impacted/ affected after the advent of CAD CAM systems?
[25]
2. What are the challenges faced in restoring a lesion which extends subgingivally and how to overcome them?
[25]
3. **Short essay on :** [10x5=50]
 - (a) Separation of teeth, need and ways to achieve it
 - (b) Types of bevels for cast metal restorations
 - (c) Self etch versus Total etch bonding
 - (d) Desensitizing agents
 - (e) Laser applications in Conservative Dentistry

QP Code: CDN103

**MDS[Conservative Dentistry and Endodontics]
[PART- II]**

BF/2024/02

Endodontics

[Paper-II]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

1. Describe the types, materials, diagnosis and clinical outcome evaluation for Vital pulp therapy.
[25]
2. Describe the etiology, classification and clinical management of Root resorption.
[25]
3. **Short essay on :** [10x5=50]
 - (a) Isolation Techniques
 - (b) Application of CBCT in Endodontics
 - (c) Healing after Horizontal Root Fracture
 - (d) Recent Access Cavity Designs
 - (e) Interappointment Emergencies in Endodontics

QP Code: CDN104

**MDS[Conservative Dentistry and Endodontics]
[PART- II]**

BF/2024/02

Descriptive and Analysing Type Question

[Paper-III]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

Attempt any TWO questions:

[50 x 2= 100]

1. Endodontic Failure and Retreatment.
2. Resto Perio Symbiosis.
3. Biological response to various Restorative materials and Operative procedures.

QP Code: ODN101

**MDS[Orthodontics & Dentofacial Orthopedics]
[PART- I]**

BF/2024/06

**Applied Basic Sciences
[Paper-I]**

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note: 1.) *Attempt all questions.*
 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
 3.) *The Student must write Q.P. Code in the space provided on the Title
Page of the Answer Book.*

1. Enumerate the various theories of Growth. Describe functional matrix theory of growth in detail. [10]
2. Discuss CONSORT guidelines for randomized research studies. [10]
3. Discuss Bonding techniques for Ceramic surfaces. [10]
4. Discuss the role of Genetics in Orthodontics. [10]
5. Discuss Calcium metabolism. [10]
6. Discuss variable temperature dependent wires in Orthodontics. [10]
7. Describe hereditary limitations in Orthodontics. [10]
8. Describe the important steps in case analysis and describe the various factors which you will take into consideration for prognosis of the case. [10]
9. Discuss Latex allergy in Orthodontics. [10]
10. What is Twinning. Discuss its significance. [10]

QP Code: ODN102

**MDS[Orthodontics & Dentofacial Orthopedics]
[PART- II]**

BF/2024/02

Orthodontic History, Concepts of Occlusion and Esthetics, Child and Adult Psychology, Etiology and Classification of Malocclusion, Dentofacial Anomalies, Diagnostic procedures and treatment planning in Orthodontics, Practice Management in Orthodontics

[Paper-I]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) Attempt all questions.**
- 2.) NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.**
- 3.) The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.**

1. What are the cause of TMD ? Discuss the relation between orthodontic treatment and TMD.

[25]

2. Discuss Macro-Mini & Microesthetics in detail.

[25]

3. **Short essays :**

[10x5=50]

- (a) Long Face Syndrome
- (b) Transient Malocclusion
- (c) Development and Orthodontic application of CBCT
- (d) Bennett Classification
- (e) Development of Child Psychology according to Ericson

QP Code: ODN103

**MDS[Orthodontics & Dentofacial Orthopedics]
[PART- II]**

BF/2024/02

**Clinical Orthodontics
[Paper-II]
[New Regulations w.e.f.2018 admission]**

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

1. Discuss biomechanics of retraction of anterior teeth in extraction cases. Briefly discuss merits & demerits of commonly used methods. [25]

2. Outline the treatment protocol for a child with severe unilateral cleft of the lip and palate from birth to adulthood. Discuss the role of secondary alveolar bone grafts and its timing in the management of the problem. [25]

3. **Short essays :** [10x5=50]

- (a) Distraction osteogenesis –Basic Principles & Clinical application
 - (b) Molar distalization by skeletal anchorage
 - (c) Torque prescriptions in fixed appliances
 - (d) Temporary Anchorage devices for maxillary incisor intrusion and retraction
 - (e) Role of the Orthodontist in obstructive sleep apnoea
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QP Code: ODN104

**MDS[Orthodontics & Dentofacial Orthopedics]
[PART- II]**

BF/2024/02

Descriptive and Analysing Type Question

[Paper-III]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.*

Attempt any TWO questions:

[50 x 2= 100]

1. Functional Jaw Orthopedics: Current Concepts
2. Charles J. Burstone Contributions In Orthodontics
3. Interdisciplinary Orthodontics

QP Code: OPN101

**MDS[Oral & Maxillofacial Pathology & Oral Microbiology]
[PART- I]**

BF/2024/06

Applied Basic Sciences

[Paper-I]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) *The Student must write O.P. Code in the space provided on the Title Page of the Answer Book.*

1. Write in detail about Oral mucosal immunology. [10]
2. Write about the role of Genes in Odontogenesis. [10]
3. Write in detail about the applied anatomy and applied physiology of Maxillary sinus with its associated pathologies. [10]
4. Write about the significance of ANOVA in statistical analysis. [10]
5. What are the various expression of Cell injury. Explain. [10]
6. What is Sickle cell anaemia. Describe its oral and dental manifestations. [10]
7. Describe origin, course, distribution and clinical considerations of Trigeminal Nerve. [10]
8. Explain Wound Healing in detail. [10]
9. Discuss Bacterial genetics and its role in bacterial infections. [10]
10. Describe Non-candida fungal infections. [10]

**MDS[Pediatrics and Preventive Dentistry]
[PART- I]**

BF/2024/06

Applied Basic Sciences

[Paper-I]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.***
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.***
- 3.) *The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.***

1. Factors influencing Wound Healing [10]
2. Role of IgG in defence against Streptococcus Mutans [10]
3. Define Allergy? Classify Hypersensitivity reactions. [10]
4. How do Platelet disorders affect decision making as related to Dental procedures? [10]
5. Maxillary Nerve. [10]
6. Discuss in detail the relationship of Diet, Nutrition and Dental caries. [10]
7. Describe the modes of transmission of Hepatitis B infection and its prevention. [10]
8. Adverse effects of Corticosteroids. [10]
9. Actinomycosis. [10]
10. Write about laboratory diagnosis of Pulmonary Tuberculosis. [10]

**MDS[Oral Medicine & Radiology]
[PART- I]**

BF/2024/06

Applied Basic Sciences

[Paper-I]

[New Regulations w.e.f.2018 admission]

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
- 2.) *NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED.*
- 3.) **The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.**

- | | |
|---|------|
| 1. Age changes in Mandible and its applied aspect. | [10] |
| 2. Calcium metabolism and its applied aspect | [10] |
| 3. Submandibular gland and its applied aspect | [10] |
| 4. Basal Metabolic Rate | [10] |
| 5. Autoimmune diseases and their Oral manifestations | [10] |
| 6. Chemotherapy in Oral Cancers | [10] |
| 7. Laboratory investigations in Anaemia | [10] |
| 8. Drug hypersensitivity reactions and their Oral aspects | [10] |
| 9. Chemical carcinogens and Viral Carcinogens | [10] |
| 10. Laboratory investigations in Syphilis and AIDS | [10] |
