

QP Code: PCN101

MDS[Prosthodontics and Crown & Bridge]

[PART- I]

BF/2021/11

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. What is Saliva? Write its composition & function. Describe oral manifestation of Xerostomia and its management. [10]
 2. Explain Growth and development of Mandible. [10]
 3. What is Data? Write various types of data collection in detail. [10]
 4. Define Anemia. What are the different types of anemia. Describe Iron deficiency anemia. [10]
 5. Define Investment. Explain types of investment materials and casting defects. [10]
 6. Describe Immunoglobulins. [10]
 7. Explain Vit. D & Calcium metabolism. [10]
 8. Describe Color and its significance in Prosthodontics. [10]
 9. Describe Age changes in natural dentition and its Prosthodontic management. [10]
 10. Explain in detail Implant biomaterials. [10]
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QP Code: PCN102

MDS[Prosthodontics and Crown & Bridge]

[PART- II]

BF/2021/11

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 Q.P. Code in the space provided on the Title Page of the Answer Book.*

1. Discuss in detail Obstructive sleep apnea and its management. [25]
2. Discuss the rehabilitation of an Edentulous patient with implant supported overdenture. [25]
3. **Short essays :** [10x5=50]
 - (a) Zone of minimal conflict
 - (b) Stereo lithography in the fabrication of implant restorations
 - (c) Discuss and justify selection of major connector for Kennedy's class II partially edentulous arches
 - (d) Soft palate defects and their management
 - (e) Status of flexible dentures

QP Code: PCN103

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

BF/2021/11

**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 concepts of Occlusion in Fixed partial denture. [25]

2. Discuss Recent advances in Ceramics for Anterior restorations. [25]

3. **Short essays :** [10x5=50]
 - (a) Diagnostic Wax- up
 - (b) Temporization
 - (c) LASER in Fixed Prosthodontics
 - (d) ALLOYS used in Fixed Partial Denture
 - (e) Role of Face bow & Articulators in Fixed Prosthodontics

QP Code: PCN104

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

BF/2021/11

**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. Modern concept and principles of Maxillofacial Prosthetic Rehabilitation.
 2. Implants towards Complete Prosthodontic Service.
 3. Metal free restorations in Fixed Prosthodontics
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QP Code: PEN101

MDS[Periodontology]

[PART- I]

BF/2021/11

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. Discuss about Gingival fibers and their functions. [10]
2. Role of Neutrophils in inflammation. [10]
3. Various methods of Chemical sterilization. [10]
4. What are the different methods of Data collection? [10]
5. Study designs of Periodontal research. [10]
6. NSAIDs- Role in Periodontal therapy. [10]
7. Role of Vitamin C in Periodontal health and disease. [10]
8. Anatomy of Maxillary Sinus: Clinical implications. [10]
9. Discuss Coagulation cascade. [10]
10. Role of Saliva in health and disease. [10]

QP Code: OSN101

MDS[Oral & Maxillofacial Surgery]

[PART- I]

BF/2021/11

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. Write surgical anatomy of Nose as related to Rhinoplasty. [10]
2. Write short notes on Hyperparathyroidism. [10]
3. Write short notes on Recent local anaesthetic agents. [10]
4. Describe Von Willebrand disease in detail. [10]
5. Write in detail surgical anatomy of Facial nerve and its branches. Mention facial danger zones where nerve is vulnerable to injury. [10]
6. Discuss the anatomy of Local flaps used in Maxillofacial surgery. [10]
7. Discuss Intracranial venous sinuses & their significance in Maxillofacial surgery. [10]
8. Discuss Recent protocol for antibiotic prophylaxis in Rheumatic heart disease patient. [10]
9. Write short notes on Actinomycosis of Jaws and its treatment. [10]
10. Describe the surgical anatomy of External carotid artery and procedure for ligation of this artery. [10]

QP Code: CDN101

MDS[Conservative Dentistry and Endodontics]

[PART- I]

BF/2020/11

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. Development, composition, physical characteristics, structure and age changes of Enamel. [10]
 2. Stages of Deglutition [10]
 3. Calcium Metabolism [10]
 4. Tarnish and Corrosion. [10]
 5. Biocompatibility Tests [10]
 6. Role of Fluorides in caries prevention [10]
 7. Healing and repair of an Endodontic lesion [10]
 8. Role of antibiotics in Conservative dentistry and endodontics. [10]
 9. Effect of Operative procedures on dental pulp [10]
 10. Sterilization and disinfection of Dental operatory before and after treatment during Covid-19 pandemic [10]
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QP Code: ODN101

MDS[Orthodontics & Dentofacial Orthopedics]

[PART- I]

BF/2020/11

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. Evolutionary development of Jaws [10]
2. Generations of Bonding agents [10]
3. Nature versus Nurture [10]
4. Mechanism of Bone formation [10]
5. Molecular basis of Genetics [10]
6. Drugs affecting Orthodontic therapy [10]
7. Harmonal disorders and role in Orthodontics [10]
8. Tissue responses in Teeth under orthodontic treatment [10]
9. Hypersensitivity reactions in Orthodontics [10]
10. Differentiate between Systematic review and Meta- analysis [10]

QP Code: OPN101

MDS[Oral & Maxillofacial Pathology & Oral Microbiology]

[PART- I]

BF/2021/11

Applied Basic Sciences

[Paper-I]

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

Time :3 Hours

Max Marks. :100

Note:

- 1.) *Attempt all questions.*
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1. Explain the term Epithelial- Mesenchymal interactions and its role in Odontogenesis. [10]
 2. Explain the terms:- [10]
(a) Chi-square test (b) Analysis of variance (c) Odds ratio
 3. Describe the term Epigenetics and explain its significance. [10]
 4. Describe the Embryogenesis & histological structure of Salivary glands and write about controls of salivary secretion. [10]
 5. Describe the structure of a Virus & write about serological markers of Hepatitis-B virus infection. [10]
 6. What are the Cellular adaptations of growth & differentiation. Explain the mechanisms of cell injury. [10]
 7. Describe the uses and significance of Ultrafiltration & Centrifugation in Biochemical analysis. [10]
 8. Describe the Vascular & Cellular events of Inflammation. [10]
 9. Describe in detail the embryology, anatomy and histology of Tongue. [10]
 10. Explain the term Immunodeficiency and write about its relevance in Opportunistic Infections. [10]
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QP Code: PPN101

MDS[Pediatrics and Preventive Dentistry]

[PART- I]

BE/2021/11

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. Sampling and its types, Explain Non random type of sampling method. [10]
 2. Cleft Lip and Cleft Palate- Prevalence, classification, risk factors and histopathogenesis. [10]
 3. Theories of Antibodies formation. [10]
 4. Discuss the development of measurement of Intelligence in Children. [10]
 5. Pathogenesis of Osteomyelitis in Children. [10]
 6. Functional matrix hypothesis revisited and with emphasis to the constraint of the original theory. [10]
 7. Trigeminal ganglion and Mandibular nerve. [10]
 8. Prenatal growth of Maxilla and Mandible. [10]
 9. Functions of Stomatognathic system and clinical implications. [10]
 10. Rationale of diet counselling in step by step chair-side preventive management of Dental caries [10]
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QP Code: OMN101

MDS[Oral Medicine & Radiology]

[PART- I]

BF/2021/11

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. Development of Pharyngeal arches and their derivatives. [10]
 2. Fascial Spaces : Anatomy and applied aspects [10]
 3. Tongue Papillae : Normal and abnormal [10]
 4. Discuss various Allergic reactions. [10]
 5. Tumors markers in Oral PMDs and Oral SCC. [10]
 6. Discuss Infection control in Dental office. [10]
 7. Various effects of Fluoride on Teeth and Bone. [10]
 8. Investigations in Viral lesions of Oral cavity. [10]
 9. Describe Periodontal ligament and its significance in diagnosing various lesions. [10]
 10. White Blood Cells and Inflammation [10]
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