

**QP Code: PCN101**

**MDS[Prosthodontics and Crown & Bridge]**

**[PART- I]**

BF/2020/07

**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.*

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|-----|--|------|
| 1.  | Describe importance of Tarnish and Corrosion.          | [10] |
| 2.  | Muscles of mastication in Jaw Movements                | [10] |
| 3.  | Hyperglycemia and its significance in Medical history  | [10] |
| 4.  | Secondary Hypertension                                 | [10] |
| 5.  | Radiological investigations in Prosthodontics          | [10] |
| 6.  | Castable Ceramics                                      | [10] |
| 7.  | Importance of Contacts and Contours in Restorations    | [10] |
| 8.  | Steroids and its importance in Prosthodontic treatment | [10] |
| 9.  | Composition and functioning of Saliva                  | [10] |
| 10. | Osteomyelitis of Jaw                                   | [10] |
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**MDS[Periodontology]**

**[PART- I]**

BF/2020/07

**Applied Basic Sciences**

**[Paper-I]**

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

**Time :3 Hours**

**Max Marks. :100**

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1. Discuss the surgical anatomy of the Maxilla with respect to Dental implants. [10]
  2. Describe the ultra structure of the Gingival epithelium.
  3. Discuss the composition and functions of Blood. Add a note on Hemoglobin.
  4. Discuss the role of Saliva in health and disease. [10]
  5. Write the various Liver Function Tests. [10]
  6. Classify non Steroidal anti inflammatory drugs. Discuss their side effects. [10]
  7. Define Desquamative gingivitis. Write its clinical features. [10]
  8. Define Inflammation. Discuss the various cellular and vascular events associated with inflammation. [10]
  9. Write about the role of Immune- fluorescence in Periodontology. [10]
  10. Discuss various indices used to evaluate Oral Hygiene. [10]
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**QP Code:CDN101**

**MDS[Conservative Dentistry and Endodontics]**

**[PART- I]**

BF/2020/07

**Applied Basic Sciences**

[Paper-I]

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

**Time :3 Hours**

**MaxMarks.: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.*

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|--|------|
| 1. Routes of Drug Distribution.                                  | [10] |
| 2. Theories of Dentinal Sensitivity                              | [10] |
| 3. Clinical significance of Vitamins                             | [10] |
| 4. Casting Defect  | [10] |
| 5. Local anaesthesia in Endodontics                              | [10] |
| 6. Experimental Study Design                                     | [10] |
| 7. Histologic structure, function and regressive changes of Pulp | [10] |
| 8. Universal Precautions   | [10] |
| 9. Contacts and Contours   | [10] |
| 10. Dental Cements   | [10] |
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**QP Code: ODN101**

**MDS[Orthodontics & Dentofacial Orthopedics]**

**[PART- I]**

BF/2020/07

**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.*
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|-----|--|------|
| 1.  | Growth Predictions   | [10] |
| 2.  | Generations of Bonding Agents  | [10] |
| 3.  | Clasp Knife Reflex   | [10] |
| 4.  | Protein Energy Malnutrition  | [10] |
| 5.  | Gold Standard SMI  | [10] |
| 6.  | Drugs affecting Orthodontic Therapy  | [10] |
| 7.  | Principles of Orofacial Genetics   | [10] |
| 8.  | Histopathology of White Spot Lesion  | [10] |
| 9.  | Differentiate between Endemic, Epidemic and Pandemic. Discuss briefly about ongoing pandemic and its implications in Orthodontic Practice. | [10] |
| 10. | Systematic review and Meta- analysis.  | [10] |
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**QP Code:OSN101**

**MDS[Oral & Maxillofacial Surgery]**

**[PART- I]**

BF/ 2020/07

**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 in detail the branches of External Carotid Artery. Add a note on the procedure of ligation of external carotid artery and its branches. [10]
2. Describe the surgical anatomy of TMJ and its age related adaptive changes [10]
3. Write note on the physiology of Nerve conduction. [10]
4. Describe the mechanism of regulation of Blood pressure. [10]
5. Role of sodium in Homeostasis. [10]
6. Dosage and mode of Drug administration. [10]
7. Write note on Hypersensitivity reaction. [10]
8. Wound Healing. [10]
9. Management of patient suffering from Hepatitis- B for oral surgical procedure. [10]
10. Write note on Research tools and Data collection methods. [10]

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

BF/2020/07

**Applied Basic Sciences**

[Paper-I]

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

**Time :3 Hours**

**Max Marks. :100**

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

1. Methods of gathering Growth Data [10]
  2. Bioforce Archwires [10]
  3. Role of muscles in development and treatment of various Malocclusions [10]
  4. Bone Physiology [10]
  5. Neural Crest Cells [10]
  6. First and Second Messengers in Orthodontic Tooth Movement [10]
  7. Adenoid Hypertrophy [10]
  8. Developmental Defects of Face [10]
  9. Prevention of Spread of COVID- 19 infection in Orthodontic Practice. [10]
  10. Double Blind Study [10]
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**QP Code: PPN101**

**MDS[Paedodontics and Preventive Dentistry]**

**[PART- I]**

BF/2020/07

**Applied Basic Sciences**

[Paper-I]

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

Time :3 Hours

MaxMarks.: 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 briefly on the dimensional changes in Dental Arch from Birth to 14 years. [10]
2. Write notes on Natal and Neonatal Teeth- definition, classification, clinical consideration and management strategies. [10]
3. Discuss in brief the various theories of Antibody Formation. [10]
4. Discuss in brief the various differences in the physiology of Children and Adults. [10]
5. Write Nutritional deficiencies in Children and their manifestations. [10]
6. Describe in brief the concept of Evidence Based Dentistry. [10]
7. Write a note on the microbiology of primary and secondary Endodontic infections. [10]
8. Write a note on the Gingival enlargement seen among Children and their management [10]
9. Write note on Primary Herpetic Gingivostomatitis and its management. [10]
10. Write note on Judicious use of Antibiotics in Pediatric Dentistry - indications for prescription as per current recommendations. [10]

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