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B.D.S. [1st Year]
BF/2007/11

Dental Materials

[Common for All Candidates i.e. Old & New]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Classify Impression materials. Describe in detail Irreversible Hydrocolloid impression material. [15]
2. Describe in detail dental Casting procedures. [15]
3. **Write notes on:**
 - a. Etch enamel technique. [5]
 - b. Setting reaction of polysulfide silicone. [5]
 - c. Metal free ceramic. [5]

Part - II

4. Describe the different types of Waxes used in dentistry - Discuss in detail properties of various waxes. [15]
 5. What are Gypsum. Describe their classification, usage and properties. [15]
 6. **Write notes on:**
 - a. Soft reliners. [5]
 - b. Composites. [5]
 - c. Polymerization. [5]
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B.D.S. [1st Prof.]

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General Human Anatomy

[Revised Syllabus]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions. Illustrate your answers with suitable diagrams.
Use Separate Answer Sheet for Each Part.*

Part - I

1. **Describe Thyroid Gland under following headings:**
 - a. Gross Anatomy. [7]
 - b. Blood supply. [3]
 - c. Applied anatomy. [3]
 - d. Development. [2]
2. **Write briefly about following:**
 - a. Mandibular nerve and its distribution. [10]
 - b. General investing layer of Deep Fascia of Neck. [5]
3. **Write short notes on:**
 - a. 1st Pharyngeal arch. [5]
 - b. Histology of Parotid gland. [5]
 - c. External Carotid artery. [5]

Part - II

4. Enumerate various parts of Excretory system and describe parts of Kidney. [15]
 5. **Describe briefly:**
 - a. Fourth ventricle of Brain. [8]
 - b. Cutaneous nerve supply of face. [7]
 6. **Write short notes on:**
 - a. Klinefelter syndrome. [5]
 - b. Histology of Tongue. [5]
 - c. Development of Thymus. [5]
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M.M. : 90

Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.

1.
 - a. Describe Erythropoiesis and factors affecting it.. [8]
 - b. Describe Hemostasis. [7]

2.
 - a. Describe Cardiac cycle. [8]
 - b. Describe compensatory mechanisms in Shock due to massive bleeding. [7]

3.
 - a. Describe Chemical Control of Respiration. [8]
 - b. Describe Oxygen Hemoglobin dissociation curve. [7]

4.
 - a. Describe the movements of Gastro Intestinal Tract. [8]
 - b. Describe the synthesis and function of Hormones of Thyroid gland. [7]
5.
 - a. Describe the physiology of Micturition. [8]
 - b. Classify Reflexes and give their properties. [7]
6.
 - a. Describe the connections and functions of Basal Ganglia. [8]
 - b. Describe the physiology of Taste. [7]

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Biochemistry
[Revised Syllabus]

M.M. : 90

Time : 3 Hours

Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.

Part - I

1.
 - a. Discuss how we get energy from Starch. [8]
 - b. Discuss biochemistry & diagnosis of Diabetes Mellitus. [7]
2. **Discuss briefly:** [3x5=15]
 - a. Glycine.
 - b. Alkaline Phosphatase.
 - c. Calcium.
3. **Write short notes on:** [3x5=15]
 - a. Optimum PH.
 - b. Glutathione.
 - c. Lactose intolerance.

Part - II

4. **Write briefly:** [3x5=15]
 - a. Iodine.
 - b. Optical Isomer.
 - c. Tubular maximum for Glucose.
 5. **Discuss briefly:** [3x5=15]
 - a. Quaternary Protein.
 - b. HDL.
 - c. Ribose.
 6. **Describe:** [3x5=15]
 - a. Hyper Uraecemia.
 - b. Detoxification of NH₃.
 - c. Pyridoxal Phosphate.
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General & Dental Pharmacology

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. **Explain why?** [4×4=16]
 - a. Aluminium hydroxide is combined with magnesium hydroxide in various antacid preparations.
 - b. Trimethoprim is usually combined with Sulfamethoxazole.
 - c. Corticosteroids should be withdrawn gradually.
 - d. Adrenaline is the drug of choice in Anaphylactic shock.
2. **Discuss briefly:**
 - a. Bioavailability. [5]
 - b. Placebo. [5]
 - c. Teratogenicity. [5]
3. Enumerate various Local anaesthetics. Discuss briefly the mechanism of action, pharmacological actions, therapeutic uses & adverse effects of Lignocaine. [14]

Part - II

4. Enumerate broad spectrum antibiotics. Describe briefly the mechanism of action, therapeutic uses & adverse effects of Tetracyclines. [15]
 5. **Describe briefly:**
 - a. Paracetamol. [5]
 - b. Frusemide [5]
 - c. Phenytoin. [5]
 6. **Write short notes on:**
 - a. Astringents. [5]
 - b. Drug treatment of aphthous stomatitis. [5]
 - c. General toxicity of Cytotoxic drugs. [5]
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General Pathology

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
 Use Separate Answer Sheet for Each Part.*

Part - I

1. a. Define Inflammation. Discuss in detail the cellular events of acute Inflammation. [10]
 b. Define Atrophy. Describe briefly the causes of Atrophy. [5]
2. **Write short notes on:**
 a. Tubercular Osteomyelitis. [5]
 b. Squamous cell Carcinoma[Oral Cavity] [5]
 c. Gangrene. [5]
3. **Differentiate between:**
 a. Primary and Secondary healing. [5]
 b. Benign and Malignant tumors. [5]
 c. Haemophilia and Ideopathic Thrombocytopenic Purpura. [5]

Part - II

4. **Discuss briefly:**
 a. Laboratory diagnosis of Megaloblastic Anaemia. [7]
 b. Macronodular Cirrhosis. [8]
5. **Write short notes on:**
 a. Hodgkin's Lymphoma. [5]
 b. Cervicofacial Actinomycosis. [5]
 c. Chronic Glomerulonephritis. [5]
 d. Pulmonary embolisms. [5]
6. **Describe briefly:**
 a. Myocardial infarction. [5]
 b. Scurvy. [5]

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Oral & Dental Anatomy

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Give an illustrated description of development, nerve supply, blood supply and lymphatic drainage of Tongue. [15]
2. Write the development of Occlusion from 6 months of age to 12 years of age with special reference to the chronology of Eruption of Deciduous and Permanent teeth. [15]
3. **Write short notes on:**
 - a. Dead tracts. [5]
 - b. Occlusal anatomy of Maxillary 1st Molar. [5]
 - c. Saliva. [5]

Part - II

4. Enumerate various developmental stages of Tooth and discuss Bell stage in detail. [15]
 5. Describe the development, structure and functions of Periodontal ligament. [15]
 6. **Write short notes on:**
 - a. Dentinal sensitivity. [8]
 - b. Age changes in Pulp. [7]
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General Microbiology

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
 Use Separate Answer Sheet for Each Part.*

Part - I

1. Classify Genus Mycobacterium. Outline the steps involved in the laboratory diagnosis of Pulmonary tuberculosis. [15]
2. **Write short notes on:**
 - a. Standard tests for Syphilis[STS] [5]
 - b. Filtration. [5]
 - c. Transport media. [5]
3. **Write short notes on:**
 - a. Bacterial growth curve. [5]
 - b. Tetanus prophylaxis. [5]
 - c. Virulence tests for Corynebacterium diphtheriae. [5]

Part - II

4. Enumerate the normal bacterial flora of the mouth. Discuss the bacteriological basis of dental caries. [15]
5. **Write short notes on:**
 - a. Immunoglobulin M[IgM] [5]
 - b. Biological effects of complement. [5]
 - c. Dermatophytoses. [5]
6. **Write short notes on:**
 - a. Hepatitis B virus infection in dental practice. [5]
 - b. Japanese B encephalitis. [5]
 - c. Life cycle of malarial parasite in man. [5]

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Community Dentistry

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Discuss in detail the various non pharmacological techniques of behaviour management for managing an uncooperative child on the first visit to the dental operatory. [15]
2. Discuss the role of Sodium fluoride, Stannous fluoride and Acidulated phosphate fluoride in prevention of dental caries, clearly explaining the method of preparation, mechanism of action and application procedure of each. [15]
3. **Write short notes on:** [3x5=15]
 - a. Indian Dental association.
 - b. Prospective and Retrospective studies.
 - c. Sampling methods.

Part - II

4. Discuss the various measures available for prevention of Gingival and Periodontal diseases. [15]
 5. **Write notes on:** [3x5=15]
 - a. Standard deviation and Standard error of Mean.
 - b. Mean, Mode and Median.
 - c. Paired and Unpaired 't' test.
 6. **Write short notes on:** [3x5=15]
 - a. School dental health programme.
 - b. Fluorosis index.
 - c. Taboos in dentistry.
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General Medicine

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Discuss etiology, clinical features and management of Subacute Bacterial Endocarditis. [15]
2. **Write short notes on:**
 - a. Lung abscess. [8]
 - b. Trigeminal neuralgia. [7]
3. **Describe briefly:**
 - a. Complications of Typhoid fever. [8]
 - b. Treatment of Anaphylaxis. [7]

Part - II

4. Discuss etiology, clinical features and management of Bacterial Meningitis. [15]
 5. **Write short notes on:**
 - a. Macrocytic anaemia. [8]
 - b. Mumps. [7]
 6. **Describe briefly:**
 - a. Antiretroviral drugs. [8]
 - b. Diagnosis of Viral hepatitis. [7]
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Oral Pathology & Microbiology

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Enumerate developmental disturbances of the Tongue. Discuss in detail Median Rhomboid Glossitis. [15]
2. Classify Odontogenic tumors of the Oral cavity. Describe ameloblastoma in detail. [15]
3. Write short notes on:
 - a. Hairy Leukoplakia. [5]
 - b. Varicella Zoster. [5]
 - c. Pernicious anaemia. [5]

Part - II

4. Classify Odontogenic Cysts. Describe the clinical, radiological and histological features of Odontogenic Keratocyst. [15]
 5. Define & classify Osteomyelitis of the Jaws. Describe in detail various types of Chronic Osteomyelitis. [15]
 6. Write short notes on:
 - a. ANUG. [5]
 - b. Ludwig's angina. [5]
 - c. Erosion. [5]
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General Surgery

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Describe clinical features, complications and management of Carcinoma Tongue. [5]
2. **Discuss briefly:**
 - a. Haemophilia. [10]
 - b. Treatment of Head Injury. [10]
3. **Write short notes on:**
 - a. Dermoid Cyst. [5]
 - b. Tracheostomy. [5]

Part - II

4. Describe the etiology, clinical features, prophylaxis and treatment of Tetanus. [15]
 5. **Discuss briefly:**
 - a. Factors influencing Wound healing. [10]
 - b. Complications of Blood transfusion. [10]
 6. **Write short notes on:**
 - a. Ludwig's angina. [5]
 - b. Fistula. [5]
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**Oral Medicine, Oral diagnosis
 & Radiology**
[for New Scheme Students only]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
 Use Separate Answer Sheet for Each Part.*

Part - I

1. Classify Ulcerative Vesiculobullous lesions of the oral cavity. Write in detail about etiopathogenesis, clinical features, differential diagnosis and treatment plan for recurrent Aphthous stomatitis. [15]
2. Write short notes on: [3x5=15]
 - a. Post Herpetic neuralgia.
 - b. Leukedema.
 - c. Lichen Planus.
3. Write short notes on: [2x7.5=15]
 - a. Oral manifestations of AIDS.
 - b. Management of a Cardiovascular patient in a dental clinic.

Part -II

4. Write in detail about the properties of X-rays and what measures would you take to prevent radiation hazards to yourself and your patients. [15]
5. Write short notes on: [3x5=15]
 - a. Bisecting Angle technique.
 - b. Dosimeters.
 - c. Collimation.
6. Write short notes on: [3x5=15]
 - a. Osteoradionecrosis.
 - b. Radiographic appearance and differential diagnosis of Dentigerous cyst.
 - c. Radiographic appearance of Fibrous dysplasia.

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Periodontology
[for New Scheme Students only]

M. : 90

Time : 3 Hours

Note : Attempt all questions.
 Use Separate Answer Sheet for Each Part.

Part - I

1. **Differentiate between:** [3x5=15]
 - a. Attached gingiva & Alveolar mucosa.
 - b. Pregnancy induced gingival hyperplasia & Leukocytoclastic gingival hyperplasia.
 - c. Primary trauma from Occlusion & Secondary trauma from Occlusion.
2. Enumerate various acute gingival conditions. Describe briefly the etiology, clinical & histopathological features of ANUG. Also describe the treatment of ANUG [Acute Necrotizing Ulcerative Gingivitis]. [15]
3. **Write short notes on:**
 - a. Crevicular fluid. [5]
 - b. Periodontal manifestations of AIDS. [5]
 - c. Pathological condition. [5]

-II

4. Describe Periodontal Flap procedures. Briefly describe the modification of flap & the steps following this procedure. [5]

Describe briefly:

 - a. Principles of Instrumentation. [8]
 - b. Rationale of Periodontal Splinting. [7]
6. **Write short notes on:** [3x5=15]
 - a. Chemical plaque inhibitors.
 - b. Types of bony defects.
 - c. Causes of failure of periodontal therapy.

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Paedodontia and Orthodontia
[for Old Scheme Students only]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Define Habit. Discuss the role of oral habits in the development of Malocclusion. [15]
2. Enumerate the various Mixed dentition model analysis. Describe in detail Moyer's mixed dentition analysis. [15]
3. Write short notes on: [3x5=15]
 - a. Infant Oral Health.
 - b. Atraumatic Restorative therapy [ART].
 - c. OPG.

Part - II

4. Discuss indications, contra-indications and procedure of Pulpotomy in primary molars. [15]
 5. What are the local and systemic factors that effect the eruption of teeth. [15]
 6. Write short notes on: [3x5=15]
 - a. Periodic dental check up.
 - b. Role of Saliva in dental caries.
 - c. Apexification.
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Periodontics & Oral Medicine
[for Old Scheme Students only]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Dental Plaque and its role in periodontal disease. [15]
2. **Write notes on:**
 - a. Lichen Planus. [7]
 - b. Types of X-ray films. [7]
3. **Write notes on:**
 - a. ANUG. [8]
 - b. Pathological migration of teeth. [8]

Part -II

4. Principles of Periodontal instrumentation. [15]
 5. **Write notes on:**
 - a. New attachment. [7]
 - b. Periodontal Sutures. [7]
 6. Regenerative Periodontal Surgery. [16]
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Orthodontia
[for New Scheme Students only]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. What do you understand by Optimal Orthodontic Force. Describe the tissue changes in response to orthodontic force. [15]
2. Describe the important Cephalometric landmarks of Maxilla and mandible with the help of suitable diagrams. [15]
3. Write short notes on: [3x5=15]
 - a. Ugly duckling stage
 - b. Wires used in orthodontics.
 - c. Anterior Crossbite.

Part -II

4. Define Malocclusion. Enumerate the various types of classification system for Malocclusion. Discuss the merits and demerits of Angle's system of classification. [15]
 5. What are the indications, contraindications & mode of action of activator appliance therapy. [15]
 6. Write short notes on: [3x5=15]
 - a. Head gears.
 - b. Relapse in orthodontics.
 - c. Moyers' analysis.
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B.D.S. [Final Prof.]

BF/2007/11

Oral Surgery
[Common for old & new schemes both]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Define & classify the Osteomyelitis. Discuss the clinical features & treatment of chronic suppurative Osteomyelitis. [15]
2. Discuss the applied anatomy of Maxillary Sinus. Describe the clinical features & management of case of Oro-antral fistula. [15]
3. **Write notes on:**
 - a. Pre-anesthetic medication. [5]
 - b. Chemical sterilization. [5]
 - c. Boyel's apparatus. [5]

Part - II

4. Classify the Condylar fracture. Give the clinical radiographic features & treatment of unilaterally displaced Condylar fracture. [15]
 5. Define and classify the Temporo-mandibular joint Ankylosis. Discuss the etiopathogenesis, clinical features and management of a unilateral TMJ ankylosis in adult patient. [15]
 6. **Write short notes on:**
 - a. Complications of tooth extraction & their management. [7]
 - b. Giant Cell granuloma. [8]
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B.D.S. [Final Prof.]
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Prosthodontics
[Common for old & new schemes both]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Define Posterior Palatal Seal. Describe its importance and the best method to record and incorporate in complete denture. [15]
2. **Write notes on:**
 - a. Face Bow. [5]
 - b. Ideal requirements of an articulator. [5]
 - c. Pontics in Fixed partial denture. [5]
3. Define Direct retainer. What are the ideal requirements of a Clasp design. Discuss combination Clasp. [15]

Part - II

4. Describe in detail the steps and procedure involved in fabrication of Post & Core Crown for endodontically treated maxillary Central incisor. [15]
 5. **Write short notes on:** [3x5=15]
 - a. Surveying tools.
 - b. Laminates.
 - c. Resin retained bridge.
 6. **Write notes on:** [2x7.5=15]
 - a. Various compensatory curves involved in fabrication of complete denture to achieve balanced Occlusion.
 - b. Describe diagnosis and treatment planning for a partially edentulous patient.
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B.D.S. [Final Prof.]

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Pedodontia

[for New Scheme Students only]

M.M. : 90

Time : 3 Hours

Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.

Part - I

1. Discuss early childhood caries and its management in pedodontic clinic. [15]
2. What is the importance of pediatric Restorative dentistry. Discuss in detail the modifications in the preparation of cavities in Deciduous teeth. [15]
3. Write short notes on:
 - a. Glass - Ionomer cement. [5]
 - b. Mixed dentition analysis. [5]
 - c. Nolla's stages of tooth development. [5]

Part -II

4. What are the causes of Diastema between Upper Central Incisors? Describe the treatment plan for Central diastema in a child of 13 years. [15]
 5. Describe the commonly occurring Gingival diseases in children. [15]
 6. Write short notes on: [3x5=15]
 - a. Home.
 - b. Natal, Neonatal & early infant teeth.
 - c. Critical pH.
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B.D.S. [Final Prof.]
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Operative Dentistry/Conservative Dentistry
[Common for old & new schemes both]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Describe the restoration of a carious lesion on the distal surface of Canine. [15]
2. Compare Step back and Crown down techniques of biomechanical preparation of root canal. [15]
3. **Write short notes on:** [5 each]
 - a. Chemomechanical method of caries excavation.
 - b. Gingival margin trimmer.
 - c. Interim restorations.

Part - II

4. Compare the cavity preparation for a Cast gold and Composite Inlay. [15]
 5. Describe the management of a medically compromised patient in endodontics. [15]
 6. **Write short notes on:**
 - a. Importance of contacts and contours in conservative dentistry. [7]
 - b. Infection control. [8]
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