

General Human Anatomy

[New Scheme w.e.f 2007 admission]

M.M. : 70

Time : 3 Hours

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

Part – I

1. **Write briefly about following:**
 - a. Lateral wall of nasal cavity. [6]
 - b. Palatine tonsil. [6]


2. **Write short notes on:**
 - a. Dangerous area of Face. [4]
 - b. Lymphatic drainage of Tongue. [4]
 - c. Blood supply of Thyroid gland. [4]

3. **Describe histological structure of following:**
 - a. Hypophysis Cerebri [Pituitary gland] [6]
 - b. Ovary. [5]

Part – II

4. Describe the course, branches and applied anatomy of Facial nerve. [12]

 5. **Describe briefly:**
 - a. Yolk Sac. [5]
 - b. Pharyngeal Pouches. [6]

 6. **Write short notes on:**
 - a. Larynx. [6]
 - b. Spinal Cord. [6]
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**General Human Physiology
&**

Biochemistry

[New Scheme w.e.f 2007 admission]

M.M. : 70

Time : 3 Hours

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

Part-I

[PHYSIOLOGY]

1. **Write short notes on:**
 - a. Haemostasis. [4]
 - b. Neuromuscular transmission. [4]
 - c. Composition and function of Gastric Juice. [4]
2. **Describe:**
 - a. Mechanism of concentration of Urine. [4]
 - b. Hormones of anterior pituitary and their functions. [4]
 - c. Spermatogenesis. [4]
3. **Describe:**
 - a. Cardiac output and factors affecting it. [4]
 - b. Transport of Oxygen in blood. [4]
 - c. Functions of Hypothalamus. [3]

Part-II

[BIOCHEMISTRY]

1.
 - a. What are Polysaccharides? What is the importance of liver and muscle glycogen? [8]
 - b. How we get energy from fatty acids? [5]
 2.
 - a. What are coenzyme forms of Vitamin B complex? Give examples of reactions catalyzed by them. [8]
 - b. What is biochemical importance of Calcium? How its levels are regulated. [5]
 3. **Write short notes on:**
 - a. Tyrosine. [3]
 - b. Malnutrition. [3]
 - c. Liver function tests. [3]
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Dental Anatomy
Embryology and Oral histology
[New Scheme w.e.f 2007 admission]

M.M. : 70

Time : 3 Hours

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

Part – I

1. Enumerate various stages of tooth development. Describe the advance Bell stage in detail. [12]
2. **Compare:**
 - a. Deciduous teeth Vs. Permanent teeth. [4]
 - b. Cellular cementum Vs. Acellular cementum. [4]
 - c. Active eruption Vs. Passive eruption. [3]
3. **Write short notes on:**
 - a. Muscles of Mastication. [3]
 - b. TMJ. [3]
 - c. Embrasures. [3]
 - d. Ameloblasts. [3]

Part – II

4. Discuss forms and functions of Teeth. [12]
 5.
 - a. Describe regressive changes of Pulp. [5]
 - b. Compensating curvatures of Dental arches. [6]
 6. **Write short notes on:**
 - a. Taste buds. [3]
 - b. Hunter Schereger bands. [3]
 - c. Maxillary sinus. [3]
 - d. Shedding of deciduous teeth. [3]
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General Human Anatomy
[Old Scheme]

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 Temporomandibular joint under following headings:**
 - a. Components. [7]
 - b. Mechanism of action. [3]
 - c. Muscles acting upon. [3]
 - d. Movements. [2]
2. **Write briefly about following:**
 - a. Submandibular ganglion. [5]
 - b. Investing layer of deep cervical fascia. [5]
 - c. Internal jugular vein. [5]
3. **Write short notes on:**
 - a. Development of Palate. [5]
 - b. Histology of tongue. [5]
 - c. Nasal septum. [5]

Part – II

4. Enumerate various parts of female reproductive system and describe Uterus. [15]
5. **Describe briefly:**
 - a. Functional areas of Cerebral cortex. [8]
 - b. Circle of Willis. [7]
6. **Write short notes on:**
 - a. Spermatogenesis. [5]
 - b. Histology of Lymph node. [5]
 - c. Development of Thyroid gland. [5]

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General Human Physiology
[Old Scheme]

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions. Draw diagrams wherever necessary.
Use Separate Answer Sheet for Each Part..*

Part-I

1. a. Classify different Plasma proteins. Describe the functions of Plasma proteins. [8]
b. Describe the composition and functions of Lymph. [7]
2. a. Describe the physiological properties of Cardiac muscle. [8]
b. Describe the waves of Electrocardiogram[ECG] along with their significance. (Draw the diagram of ECG also). [7]
3. a. Describe Neural control of Respiration. [8]
b. Describe the mechanism of "Chloride Shift". [in relation to transport of CO₂] [7]

Part-II

4. a. Describe the composition, functions and mechanism of Salivary secretion. [8]
b. Describe the functions of Parathyroid hormone. [7]
 5. a. Describe the mechanism of formation of Urine. [8]
b. What do you understand by the term "Referred Pain". Write down different theories to explain it. [7]
 6. a. Describe different functions of Hypothalamus. [8]
b. Write a note on Blind spot. [7]
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Biochemistry
[Old Scheme]

M.M. : 90

Time : 3 Hours

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

Part – I

1. Define Glycolysis. Give its pathway and energetics. [15]
2. Write short notes on:
 - a. Lipoproteins. [5]
 - b. Classification of Enzymes. [5]
 - c. Essential fatty acids. [5]
3.
 - a. Denaturation of proteins. [7]
 - b. Diabetes Mellitus. [8]

Part – II

4. Define β -oxidation. Give its pathway. How many ATPs are produced in complete oxidation of Palmitic acid. [15]
 5. Write briefly on:
 - a. Significance of HMP pathway. [5]
 - b. Fluorine metabolism. [5]
 - c. Vitamin C. [5]
 6. Write short notes on:
 - a. Factors affecting enzyme activity. [5]
 - b. Kidney function tests. [5]
 - c. Glycogen storage diseases. [5]
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Dental Materials
[Old Scheme]

M.M. : 90

Time : 3 Hours

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

Part – I

1. Give ideal requirements of Denture base materials. How far acrylic resin fulfills these requirements. [15]
2. **Differentiate between:**
 - a. Ductility and Malleability. [5]
 - b. Cavity varnish and Cavity liner. [5]
 - c. Abrasive and Polishing agent. [5]
3. **Write short notes on:**
 - a. Multiple Mix technique. [5]
 - c. Factors affecting setting time of zinc phosphate cement. [5]
 - d. Microleakage. [5]

Part – II

4. What are Dental ceramics. Write about their composition, advantages, disadvantages and uses in detail. [15]
5. **Differentiate between:**
 - a. Stress and Strain. [5]
 - b. Condensation and Addition Silicone. [5]
 - c. Alpha and Beta Hemihydrate. [5]
6. **Write short notes on:**
 - a. Suck back porosity. [5]
 - b. Trituration. [5]
 - c. Sandwich technique. [5]

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General Pathology

M.M. : 90

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.
Make labeled diagrams wherever required.*

Part - I

1. a. Define Shock. What are the different types of Shock. Discuss in brief endotoxic shock. [8]
b. Discuss renal changes in Amyloidosis. [7]
2. **Write short notes on:**
a. Atheroma. [5]
b. Fatty change. [5]
c. Type II Hypersensitivity. [5]
3. **Describe briefly:**
a. Coagulation necrosis. [5]
b. Chemical mediators of inflammation. [5]
c. Tubercular Osteomyelitis. [5]

Part - II

4. **Differentiate between:**
a. Exudate and Transudate. [5]
b. Tuberculoid Leprosy and Lepromatous leprosy. [5]
c. Dystrophic Calcification and Metastatic calcification. [5]
5. **Write short notes on:**
a. Ameloblastoma. [5]
b. Lab diagnosis of Ideopathic Thrombocytopanic Purpura [ITP]. [5]
c. Chronic Pyelonephritis. [5]
6. a. Define Leukaemia. Discuss briefly the classification of Acute Myeloid Leukaemia[AML]. [8]
b. Discuss briefly lab diagnosis of Neoplasia. [7]

General Microbiology

M.M. : 90

Time : 3 Hours

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

Part - I

1. Enumerate the microorganisms causing Sore throat. Write briefly on the laboratory diagnosis of Diphtheria. [15]
2. **Write short notes on:**
 - a. Enrichment media. [5]
 - b. Type IV hypersensitivity. [5]
 - c. Sterilization by Moist heat. [5]
3. **Write briefly on:**
 - a. Atypical mycobacteria. [5]
 - b. Toxins and enzymes produced by *Staphylococcus aureus*. [5]
 - c. Contribution of Louis Pasteur. [5]

Part - II

4. List the bacterial flora of the Mouth. Write briefly about the dental Plaque. [15]
 5. **Write short notes on:**
 - a. Anaphylaxis. [5]
 - b. Polymerase Chain Reaction[PCR]. [5]
 - c. *Cryptococcus neoformans*. [5]
 6. **Write short note s on:**
 - a. Inclusion bodies. [5]
 - b. Hepatitis B vaccine. [5]
 - c. Life cycle of *Entamoeba histolytica*. [5]
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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? [4x4=16]
 - a. Morphine is contraindicated in head injury.
 - b. Succinyl Choline produces prolonged apnoea in some patients.
 - c. Valproic acid should not be prescribed to a child below three years of age.
 - d. Regular Aspirin medication should be discontinued one week before major dental surgery.
2. Write short notes on: [3x5=15]
 - a. Diazepam.
 - b. Ketamine.
 - c. Bleaching agents.
3. Classify Opioid analgesics. Describe therapeutic uses, adverse effects of Morphine. [14]

Part - II

4. Enumerate anti-depressant drugs. Describe the pharmacological actions, adverse effects and drug interaction of Fluoxetine. [15]
5. Describe mechanism of actions of: [3x5=15]
 - a. Benzodiazepine.
 - b. Prokinetic agents.
 - c. Omeprazole.
6. Write briefly about: [3x5=15]
 - a. Sulfonyl ureas.
 - b. Enalapril.
 - c. Dobutamine.

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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. Describe the histological structure of Enamel. Illustrate your answer with diagrams. [15]
2. Describe the advanced Bell stage in the life cycle of a tooth. What is the fate of the structures seen. [15]
3. **Write short notes on:**
 - a. Compensating curvatures of Dental arches. [5]
 - b. Regressive changes in Pulp. [5]
 - c. Lamina Dura. [5]

Part - II

4. Describe the histological structure of the Oral Mucous Membrane in detail. [15]
5. Discuss the form and functions of Teeth. [15]
6. **Write short notes on:**
 - a. Composition and functions of Saliva. [5]
 - b. Active and Passive Eruption. [5]
 - c. Development of Palate. [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. What are the various types of Shock. Describe in detail the management of Hemorrhagic Shock. [15]
2. Discuss briefly:
 - a. Actinomycosis. [10]
 - b. Branchial Cyst. [10]
3. Write short notes on:
 - a. Cellulitis. [5]
 - b. Cancrumoris. [5]

Part - II

4. What are the various types of Wounds. Discuss the management of a case of injury of soft tissue of Face. [15]
 5. Discuss briefly:
 - a. Facial Nerve Palsy. [10]
 - b. Subdural Hemorrhage. [10]
 6. Write short notes on:
 - a. Erysipelas. [5]
 - b. AIDS. [5]
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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. Describe the etiology and investigation of a case of Anaemia. [15]
2. Write short notes on:
 - a. Risk factors for Coronary Heart disease. [8]
 - b. DOTS. [7]
3. Describe briefly:
 - a. Anti retroviral therapy. [8]
 - b. Etiology and prophylaxis of Sub Acute Bacterial Endocarditis. [7]

Part - II

4. Describe the etiology, clinical features, complications and treatment of Type I Diabetes Mellitus. [15]
 5. Write notes on:
 - a. Anaphylaxis. [8]
 - b. Oral manifestations of Haematological disorders. [7]
 6. Discuss briefly:
 - a. Clinical features of Grave's disease. [8]
 - b. Evaluation of a case for General Anaesthesia. [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. Classify tumours of Salivary gland. Write in detail about the clinical, radiological and histological features of Pleomorphic adenoma. [15]
2. Write briefly about:
 - a. Actinomycosis of Jaws. [7½]
 - b. Oral manifestations of various deficiencies of Fat soluble vitamins. [7½]
3. Write short notes on:
 - a. TNM Classification of malignant tumors of the Oral cavity. [5]
 - b. Bechet's syndrome. [5]
 - c. Torus Mandibularis. [5]

Part - II

4. Discuss in detail about the etiology and clinical aspects of Dental caries. [15]
5. Write in detail about the etiological factors, clinical and histopathology features of Pagets disease of Jaws. [15]
6. Write short notes on:
 - a. Adeno-Ameloblastoma. [5]
 - b. Intra cranial complications of Oral infections. [5]
 - c. Angio neurotic Edema. [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. You have been appointed as the District Dental officer of a district in your state:
 - a. How would you assess the oral health needs of the population of the district. [8]
 - b. What steps would you take in order to improve the oral health of the residents of this district? [7]
2. Discuss briefly: [3x5=15]
 - a. Different levels of prevention and its applicability in community dental practice.
 - b. School dental health services.
 - c. W.H.O.
3. Write short notes on: [5x3=15]
 - a. Factors related to Oral cancer.
 - b. Taboos related to Oral health.
 - c. Dental Council of India.
 - d. Role of trace elements in Oral health.
 - e. Functions of Primary health centre.

Part - II

4. What are the commonly occurring dental diseases in the Indian community? What suggestions would you like to give to the authorities for prevention of these diseases? [15]
5. Discuss briefly: [3x5=15]
 - a. Primary dental health care.
 - b. Methods of Family Planning in India.
 - c. Oral manifestations associated with Malnutrition.
6. Discuss briefly: [5x3=15]
 - a. Path finder survey.
 - b. Topical fluorides.
 - c. DMFT index.
 - d. Sewage and its disposal.
 - e. Communication in Health education.

**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. What do you understand by Acantholysis? Write clinical features, histopathology and diagnostic tests of oral Pemphigus. [15]
2. Write briefly on: [3x5=15]
 - a. Fibrous dysplasia.
 - b. Pyogenic granuloma.
 - c. Major aphthous ulcers.
3. Write short notes on:
 - a. Tongue lesions in various anaemias. [7¹/2]
 - b. Oral manifestations of Syphilis. [7¹/2]

Part -II

4. Describe the principles of Ortho Pantomography and enumerate its advantages and disadvantages. [15]
 5. Describe an ideal radiographic projection indicated for detection of:
 - a. Early proximal caries in molars. [7¹/2]
 - b. Subcondylar fracture. [7¹/2]
 6. Write short notes on: [3x5=15]
 - a. Sialography.
 - b. Fixing solution.
 - c. Intensifying screens.
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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 and classify Cysts of the Jaws. Discuss the clinical features and management of Odontogenic Keratocyst of the mandible. [15]
2. Classify fractures of the Zygomatic complex. Describe the clinical features, radiographic signs and treatment of fracture of Zygomatic complex. [15]
3. Write short notes on:
 - a. Dry socket. [5]
 - b. Oro-Antral fistula. [5]
 - c. Garre's osteomyelitis. [5]

Part - II

4. Define and classify TMJ Ankylosis. Describe the etiology, clinical features and management of unilateral ankylosis of TMJ. [15]
 5. Classify Local anesthetic agents. Describe the common and ideal properties of local anesthetic agents. Briefly discuss the theories of local anesthesia action. [15]
 6. Write short notes on:
 - a. Sialolithiasis. [5]
 - b. Trigeminal neuralgia. [5]
 - c. Alveoloplasty. [5]
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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.
Draw necessary diagrams.*

Part - I

1. Classify Elli's Fracture of anterior teeth. Write in detail the various treatment modalities for Elli's Class - III fracture. [15]
2. Write briefly on Gum pads in Occlusion. Discuss various changes in dental arches from birth to adolescence. [15]
3. **Write short notes on:** [3x5=15]
 - a. Characteristics and importance of young Permanent tooth.
 - b. Linear Enamel hypoplasia.
 - c. Home care instructions.

Part -II

4. Define Rampant caries. Write in detail the etiology, clinical features, management and treatment of the same. [15]
 5. Define a handicapped Child. Write briefly on management of various handicapped conditions for dental treatment in a pediatric patient. [15]
 6. **Write short notes on:** [3x5=15]
 - a. Frankel's behaviour rating scale.
 - b. Set up of a pediatric dental clinic.
 - c. Glass ionomer cement.
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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. Classify different Amalgam alloys. Discuss in detail advantages and disadvantages of each? [15]
2. Define Matricing? Write functions, ideal requirements, parts and classification of Matrices? [15]
3. Write short notes on:
 - a. Acid etching of tooth. [5]
 - b. Radiography in operative dentistry. [5]
 - c. Zinc oxide Eugenol cement. [5]

Part - II

4. Classify diseases of the Pulp and periapical tissues? Discuss in detail a non-vital tooth with discharging sinus and its management. [15]
 5. What are the different diagnostic tests used in Endodontics? [15]
 6. Write short notes on:
 - a. Ideal requirements of obturating filling material. [5]
 - b. Buccal object rule. [5]
 - c. Sterilization of root canal instruments. [5]
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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. Discuss the role of bacteria in the causation of Periodontal disease. [15]
2. Classify Gingival enlargements. Describe clinical and histopathological features of non inflammatory gingival enlargement. [15]
3. **Write short notes on:** [3x5=15]
 - a. Dehiscence and Fenestration.
 - b. Dentogingival unit.
 - c. Gingival recession.

Part -II

4. Define Gingivectomy. Give indications, contraindications and objectives of Gingivectomy. Describe step by step procedure of Gingivectomy. Also describe briefly the nature of healing following this procedure. [15]
 5. **Describe briefly:**
 - a. Phase I therapy. [7]
 - b. Treatment of ANUG. [8]
 6. **Write short notes on:** [3x5=15]
 - a. Curettage.
 - b. Periodontal pack.
 - c. Importance of attached gingiva.
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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. Differentiate between Growth and development. Discuss the growth of mandible with the help of suitable diagrams. [15]
2. Discuss the etiology, clinical features and line of treatment for Crossbites. [15]
3. **Write short notes on:**
 - a. Therapeutic extractions in Orthodontics. [5]
 - b. Simon's classification. [5]
 - c. Hyalinization. [5]

Part -II

4. Define Anchorage. Discuss the various types of anchorage used in orthodontics with the help of suitable diagrams. [15]
5. Discuss with suitable examples, why mixed dentition stage is considered as ideal time for correction of many types of Malocclusion. [15]
6. **Write short notes on:**
 - a. Down's analysis. [5]
 - b. Hand wrist X-rays. [5]
 - c. Open bite. [5]

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. What do you understand by Balanced Occlusion. Discuss its role and importance for a complete denture patient. [15]
2. Write short notes on:
 - a. Indirect retainer. [5]
 - b. Gingival retraction. [5]
 - c. Stress breaker. [5]
3. What is the need for dual impression technique in distal extension base partial dentures. Discuss impression procedure used for distal extension base partial denture. [15]

Part - II

4. Describe step by step procedure to prepare Maxillary Central Incisor for a porcelain Jacket crown. [15]
5. Write short notes on:
 - a. Abutment selection in RPD. [5]
 - b. Curve of Spee. [5]
 - c. Hinge Axis. [5]
6. Write short notes on:
 - a. Surveying. [7¹/2]
 - b. How will you select anterior teeth for edentulous patient. Discuss in detail with guidelines for complete denture esthetics. [7¹/2]

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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. Describe various defense mechanisms of Gingiva. [15]
2. Write short notes on:
 - a. Trauma from Occlusion. [8]
 - b. Calculus. [8]
3. AIDS and Periodontium. [14]

Part -II

4. Describe the rationale of Periodontal surgery. [15]
 5. Periodontal flap operation. [14]
 6. Write notes on:
 - a. Furcation involvement. [8]
 - b. Grafts. [8]
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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. Discuss the role of diet in prevention of Dental caries. [15]
2. Enumerate how paediatric operative dentistry is different from adult operative dentistry. [15]
3. Write short notes on: [3x5=15]
 - a. Hand over mouth exercise.
 - b. Leeway space.
 - c. Stainless steel crown.

Part - II

4. Define preventive and interceptive orthodontics. Discuss space maintainer in detail. [15]
 5. Discuss Anterior tooth trauma in a child patient. [15]
 6. Write short notes on: [3x5=15]
 - a. Soldering and Welding.
 - b. Etiology of midline diastema.
 - c. Relapse.
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