## *PAPER I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND RESEARCH METHADOLOGY*

LONG ESSAYS

1. Autoimmunity
2. Carcinogenesis
3. Define inflammation. Describe in detail chemical mediators of inflammation. (2012)
4. Describe cell cycle in detail
5. Describe defense mechanism of oral cavity. (2012)
6. Describe development of tooth? Describe anomalies associated with the process?
7. Describe disorders of red blood cells?
8. Describe in detail about the biology of tumor growth?
9. Describe in detail anatomy and histology of salivary glands. Add a note on its secretion. (2012)
10. Describe in detail the facial nerve and the relevant clinical conditions associated with it. (2001)
11. Describe in detail the process of deglutition and its difference in infants and adults. (2001)
12. Describe light microscope & ultra structural features of human cell?
13. Describe the anatomy of maxillary antrum and discuss the lesions that are associated with it. (2004)
14. Describe the epithelial tissue with their functions (2002)
15. Describe the fibers in periodontal ligament. Discuss the changes that occur in the supporting tissues with movements.
16. Describe the healing of different oral wounds & factors affecting repair?
17. Describe the role of hormones (PTH & Calcitonin) in regulation of serum calcium level?
18. Describe the various constituents and functions of blood. Discuss the clinical applications of blood examination.(2012)
19. Describe theories of mineralization?
20. Discuss age changes in the oral mucosa?
21. Discuss Amelogenesis imperfect and Dentinogenesis imperfect. (2006)
22. Discuss amyloidosis in detail?
23. Discuss anatomical relationship of parotid gland & describe its development in detail?
24. Discuss anatomy, histology and nerve supply of tongue and add a note on its diseases. (2012)
25. Discuss coagulation profile (2002)
26. Discuss Dentinogenesis. (2003)
27. Discuss development of face in detail and describe sensory and lymphatic drainage?
28. Discuss developmental disturbances of oral and Paraoral soft tissues. (2004)
29. Discuss fibromatosis in detail?
30. Discuss healing of fracture wounds. Elaborate the factors, which aid or delay the healing process. (2006)
31. Discuss histology of lip & associated anomalies?
32. Discuss immunologic tolerance?
33. Discuss in detail about microscopy & physiology of odontogenesis?

## *PAPER I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND RESEARCH METHADOLOGY*

34. Discuss in detail about the effect of diabetes mellitus on oral tissues.
35. Discuss in detail about the effect of radiation on oral tissue.
36. Discuss in detail about the lymphatic drainage of head & neck.
37. Discuss in detail hallmarks of neoplasia.
38. Discuss in detail the structure of alveolar bone & describe bone remodeling.
39. Discuss mastication in detail.
40. Discuss maxillary antrum in detail and applied aspect.
41. Discuss metastasis of tumor.
42. Discuss micro & macroscopic features of submandibular salivary gland.
43. Discuss molecular basis of cancer.
44. Discuss normal oral microbial flora of oral cavity and discuss acute necrotizing ulcerative gingivitis. (2001)
45. Discuss recent advances in healing of wound. (2003)
46. Discuss role of virus as a carcinogen.
47. Discuss role of vitamin D in calcium & phosphorus metabolism.
48. Discuss structure and secretary products of fibroblasts with collagen synthesis and degradation mechanism.(2012)
49. Discuss structure of pulp. Give an account on vascularity & sensation of pulp?
50. Discuss temporomandibular joint disorders.
51. Discuss the developmental abnormalities of teeth.
52. Discuss the muscles of mastication, their mode of action, innervations and embryology (2006)
53. Discuss the normal karyotyping and aberration expressed in chromosome.
54. Discuss the role of biostatics in dentistry.
55. Discuss the structure of oral mucosa. Give an account of possible anomalies of oral soft tissue?
56. Discuss the various types of degeneration (2006)
57. Mandible.
58. Trigeminal nerve. Add a note on applied aspect?
59. Water soluble vitamins in craniofacial lesions?

## *PAPER I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND RESEARCH METHADOLOGY*

SHORT ESSAYS

1. "t" test. (2001)
2. Actinomycosis
3. Active and passive tooth eruption (2006)
4. Amelogenesis (2012)
5. Analysis of variance
6. Anemia's (2004)
7. Apoptosis (2012)
8. B Lymphocyte (2012)
9. Basement membrane
10. Bell's palsy (2006)
11. Blood grouping
12. Bone cells
13. Calcium Homeostasis (2012)
14. Calcium metabolism (2006)
15. Candidiasis (2006)
16. Cell adhesion molecules
17. Classify anemia and discuss the laboratory diagnosis (2001)
18. Collagens
19. Composition and functions of saliva
20. Cytokeratin
21. Dento-gingival junction. (2001)
22. Describe healing of an extraction wound. (2002)
23. Describe healing of fracture wounds. (2001)
24. Describe mitosis. (2001)
25. Describe the histology of dental pulp. (2002)
26. Describe the metaplasia and dysplasia (2002)
27. Describe the various types of blood vessels with diagram. (2001)
28. Describe ultrastructure of tooth enamel. (2001)
29. Development of mandible (2012)
30. Development of tongue (2012)
31. Discuss "research protocol" (2003)
32. Discuss calcium metabolism. (2001)
33. Discuss evolution of periodontal ligament. (2003)

## *PAPER I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND RESEARCH METHADOLOGY*

34. Discuss pathogenicity of staphylococcal infections. (2003)
35. Discuss pharmacology of corticosteroids. (2003)
36. Discuss the developmental anomalies associated with buccal mucosa. (2002)
37. Discuss the role of complements in host defense mechanism. (2003)
38. Discuss the role of ectomesenchyme in tooth development. (2003)
39. Discuss vitamin D metabolism. (2012)
40. Enamel organ at bell stage. (2001)
41. Erythropoiesis
42. Experimental laboratory animals.
43. Facial nerve
44. Fatty degeneration (2012)
45. Functions of saliva (2004, 2012)
46. Giant cells
47. Granuloma (2012)
48. Healing of oral wounds (2004, 2012)
49. Histo-differentiation (2006)
50. Histology of bone (2006)
51. Hiv virus
52. Homebox genes
53. Hyperplasia & hypertrophy
54. Hypersensitivity (2012)
55. Hyperthyroidism
56. Immediate hypersensitivity. (2001)
57. Immunoglobulin
58. Inferior alveolar nerve
59. Intercellular junctions
60. Iron deficiency anemia (2006)
61. Karyotyping
62. Koch postulate
63. Kreb's cycle. (2006)
64. Leukemias (2004)
65. Ludwig's angina
66. Mast cells
67. Matrix vesicle

## *PAPER I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND RESEARCH METHADOLOGY*

68. Maxillary sinus
69. Mean, mode and median (2006)
70. Mechanism of coagulation of blood and the factors associated with it. (2012)
71. Medial rhomboid glossitis (2004)
72. Muscles of mastication (2004)
73. Mycobacterium
74. Myoepithelial cells
75. Necrosis
76. Neural crest cells
77. NSAID's. (2001)
78. Oro facial pain. (2004)
79. Osteomylitis
80. Osteoradionecrosis
81. Pathophysiology of pain
82. Pleural crest cells (2012)
83. Proto oncogens
84. Random sampling
85. Role of computer in oral pathology
86. Salivary flow aberration
87. Sampling in clinical research
88. Sterilization
89. Synovial membrane (2012)
90. Taste receptors
91. Temperomandibular joint disorders (2004)
92. Theories of tooth eruption (2004)
93. Trigeminal neuralgia (2004)
94. Type IV hypersensitivity
95. Vitamin C deficiency. (2004)
96. Vitamin D deficiency (2006)
97. What are vitamins? Discuss vitamin A (2002)

## *PAPER I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND RESEARCH METHADOLOGY*

## ANATOMY

### LONG ESSAYS

**Q.1** Describe the anatomy of maxillary antrum and discuss the lesions which are associated with it.

**Q.2** Discuss TMJ and its disorders?

**Q.3** Discuss the muscles of mastication , their mod of actions ,innervations and embryology.

**Q.4** Describe in details the facial nerve and clinical conditions associated with it.

**Q.5** Discuss anatomy , histology and nerve supply of tongue and add a note on its diseases?

**Q.6** Describe in details anatomy and histology of salivary gland. Add a note on its secretions.

**Q.7** Trigeminal nerve . add a note on applied aspects?

**Q.8** Discuss development of face in details and describe sensory and lymphatic drainage ?

**Q.9**. Mandible.

**Q.10** Discuss anatomical relationship of parotid gland and describe its development in details?

**Q.11** Discuss in detail about the lymphatic drainage of head and neck?

### SHORT NOTES

**Q.1** Trigeminal Neuralgia

**Q.2** Muscles of Mastication

**Q.3** Bells Palsy

**Q.4** Maxillary sinus

**Q.5** Development of tongue

**Q.6** Development of Mandible

**Q.7** Facial nerve

**Q.8** Inferior alveolar nerve

**Q.9** Neural crest cells

## PHYSIOLOGY

### LONG ESSAYS

**Q.1** Coagulation Profile

**Q.2** Mechanism of Coagulation of Blood

**Q.3** Describe the various type of blood vessels with Diagram

**Q.4** Blood group

**Q.5** Oral facial pain

**Q.6** Erythropoiesis

**Q.7** Leukemia's

**Q.8** Describe Diabetes Mellitus and effect on oral tissue

**Q.9** Functions of Saliva

**Q.10** Discuss Anaemia and its Diagnosis

**Q.11** Anaemias

**Q.12** Red Blood Cell Disorders

**Q.13** IDA

**Q.14** Synovial Membrane

**Q.15** Mastication

**Q.16** Wound healing In detail

**Q.17** Ca Metabolism

**Q.18** Blood Grouping SN

**Q.19** Pathophysiology of pain

**Q.20** Describe various constituent and functions of blood. Discuss the Clinical applications of Blood Examinations

**Q.21** Describe the Process of deglutition

**Q.22** Describe Normal Microbial Flora of oral Cavity

**Q.23** Discuss pathology of staphylococcus infections

**Q.24** Discuss Ca Metabolism

SHORT NOTES

**Q.1** Experimental lab animals

**Q.2** Mycobacterium

**Q.3** Sterilization

## DENTAL ANATOMY AND ORAL HISTOLOGY

LONG ESSAYS

**Q.1** Discuss dentinogenesis

**Q.2** Discuss normal microbial flora of oral cavity and discuss ANUG.

**Q.3** Discuss developmental disturbances of oral and para oral soft tissue?

**Q.4** Discuss developmental anomalies of tooth

**Q.5** Discuss amelogenesis imprfecta and dentinogenesis imperfect

**Q.6** Describe epithelial tissue with their function.

**Q.7** Describe defence mechanism of oral cavity.

**Q.8** Discuss in details about microscopy and physiology of odontogenesis.

**Q.9** Describe in detail about the biology of tumour.

***PAPER I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND RESEARCH METHADOLOGY***

**Q.10** Discuss the structure of oral mucosa. Give an account of anomalies.

**Q11.** Discuss age change in oral mucosa.

**Q.12** Discuss histology of lip and associated anomalies.

**Q.13** Discuss micro and macroscopic features of salivary gland.

**Q.14** Describe radiation on oral tissues.

**Q.15** Discuss in detail development of tooth and write a note on its anomalies?

SHORT NOTES

**Q.1** Median rhomboid glossitis

**Q.2** Discuss evolution of PDL

**Q.3** Discuss ultra-structure of tooth enamel

**Q.4** Active and passive tooth eruption

**Q.5** Histology of pulp

**Q.6** Histology of bone

**Q.7** Histo-differentiation

**Q.8** Enamel organ and bell stage

**Q.9** Amelogenesis

**Q.10** Neural crest cells

**Q.11** Ludwig's angina

**Q.12** Osteocellulitis

**Q.13** Candidiasis

**Q.14** DGJ

**Q.15** Cytokeratin

**Q.16** Basement membrane

**Q.17** Myoepithelial cells

**Q.18** Salivary flow aberration

**Q.19** Matrix vesicle

**Q.20** Actinomycosis

## GENERAL PATHOLOGY

LONG ESSAYS

**Q1.** Discuss recent advances in healing of wound.

**Q2.** Discuss various types of degenerations.

**Q3.** Discuss healing of fracture wound. Elaborate the factors which add or delay the healing process.

## *PAPER I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND RESEARCH METHADOLOGY*

**Q4.** Discuss structure and secretory products of fibroblasts with collagen synthesis and degeneration mechanism.

**Q5.** Define inflammation. Describe in detail about its chemical mediators

**Q6.** Describe in detail Hallmark of neoplasia.

**Q7.** Discuss in detail alveolar bone and bone remodelling.

**Q8.** Discuss light microscope and ultra-structure feature of human cell.

**Q9**. Describe in detail about the biology of tumour growth.

**Q10**. Describe the healing of different oral wounds and factors affecting repair.

**Q11.** Discuss role of virus as a carcinogenic.

**Q12.** Autoimmunity.

**Q13**. Discuss the normal karyotyping and aberration expressed in chromosomes.

**Q14**. Discuss immunologic tolerance.

**Q15.** Discuss basis of (molecular) cancer.

**Q16.** Discuss metastasis of tumour.

**Q17.** Carcinogenesis.

**Q18.** Describe cell cycle in detail.

**Q19.** Describe theories of mineralisation.

**Q20.** Amyloidosis.

**Q21.** Fibromatosis.

SHORT NOTES

**Q.1** Roll of complement in host defence mechanism

**Q.2** Mitosis

**Q.3** Collagen

**Q.4** Healing of wound

**Q.5** Healing of extraction wound

**Q.6** Metaplasia and dysplasia

**Q.7** Immediate hypersensitivity

**Q.8** Apoptosis

**Q.9** Hypersensitivity

**Q.10** Fatty degeneration

**Q.11** Granuloma

**Q.12** Hyperplasia and hypertrophy

**Q.13** B lymphocyte

**Q.14** Giant cell

**Q.15** Type 4 hypersensitivity

**Q.16** Necrosis

**Q.17** Cell adhesion molecule

**Q.18** Mast cell

**Q.20** Home box genes

**Q.21** Karyotyping

**Q.22** Koch's postulate

**Q.23** Proto oncogenes

**Q.24** Bone cells

## BIOCHEMISTRY

**Q.1** Water soluble vitamins

Q2. Discuss Vit –D metabolism

Q3. Kerb cycle

Q4. Protein metabolism

## PHARMACOLOGY

**Q.1** NSAID's

## BIOSTATITICS

**Q.1**Discuss research methodology

Q.2 Research profile

Q.3 Analysis of variance

Q4. Sampling in clinical research

Q5. Random Sampling

Q6. Role of computer in oral pathology

Q7. T-test

Q8. Chi-Sq test

## PAPER II. ORAL PATHOLOGY, MICROBIOLOGY AND ONCOLOGY

### LONG ESSAYS

1. Discuss clinical radiographic and histopathological features of squamous cell carcinoma affecting oral tissues. (2004)
2. Describe in detail the process of deglutition and its differences in infants and adults. (2001)
3. Describe in detail the facial nerve and the relevant clinical conditions associated with it. (2001)
4. Describe in detail the sequence of events from pulpitis to cellulitis (2002)
5. Etiopathogenesis of dental caries (2002)
6. Discuss autoimmune diseases (2006)
7. Forensic odontology (2005)
8. Giant cell lesions (2005)
9. Classify white lesions of oral cavity and discuss in detail dermatologic white lesions.
10. Enumerate the swellings of the palate and describe in detail torus palatines
11. Discuss the hereditary disorders affecting enamel and dentin (2003)
12. Discuss odontogenic cysts (2003)
13. Discuss non odontogenic cysts of oral cavity (2001)
14. Discuss theories of etiology of dental caries (2001)
15. Discuss benign connective tissue neoplasms (2005)
16. Metabolic diseases affecting jaws.
17. Discuss vascular lesions of oral and maxilla facial region. (2006)
18. Etiopathogenesis, clinical features, histopathology and recent concepts of oral lichen planus (2006)
19. Discuss the histopathology and immunopathology of pemphigus group of diseases. (2001)
20. Describe the histologic features and discuss the pathogenesis of dentigerous cyst (2001)
21. Discuss psychosomatic diseases affecting oral tissues (2005)
22. Discuss molecular basis of multistep carcinogenesis (2005)
23. Classify odontogenic tumors. Describe in detail Ameloblastoma. (2012)
24. Giant cell lesions. (2012)
25. Discuss etiopathogenesis of odontogenic cysts. (2012)
26. Discuss the differential diagnosis of oral ulcers. (2012)
27. Describe current concepts of ameloblastoma. (2012)
28. Classify odontogenic tumors of oral cavity and describe odontogenic myxoma. (2012)

## PAPER II. ORAL PATHOLOGY, MICROBIOLOGY AND ONCOLOGY

### SHORT ESSAYS

1. Globulomaxillary cyst (2004)
2. Candidiasis (2004)
3. Microbiology of dental caries (2004)
4. Sickle cell anemia (2004)
5. Chronic hyperplastic pulpitis (2004)
6. Tuberculosis (2004)
7. Ameloblastoma (2005)
8. Caries in dentin (2005)
9. Lichen planus (2005)
10. Internal resorption of teeth (2005)
11. Oral microbial flora (2005)
12. Radicular cyst (2005)
13. Histopathology of dental caries
14. Staging of squamous cell carcinoma
15. Brown's tumor
16. Oncogenes
17. Malignant mixed tumor
18. Ameloblastoma
19. Discuss etiopathogenesis and clinical features of osteomyelitis caused by specific microorganism. (2006)
20. Discuss adenoid cystic carcinoma (2006)
21. Discuss histopathology of caries in dentin (2006)
22. Radicular cyst (2006)
23. Epidemiological study of oral squamous cell carcinoma (2006)
24. Etiology and oral manifestation in thrombocytopenia (2006)
25. Discuss briefly the differential diagnosis of vasoproliferative lesions of the oral mucosa.
26. Discuss immunology of dental caries (2001)
27. Discuss the papillary cyst adenoma lymphomatosum (2001)
28. Discuss the lesions of jaw that contain dentin like material (2001)
29. Discuss the histopathological differential diagnosis of fibrossesous lesions of jaw bones.
30. Write notes on osteoradionecrosis (2001)

31. Etiopathogenesis of hereditary amelogenesis imperfect (2005)
32. Oral manifestation in collagen diseases (2005)
33. Bacteriology of dental caries (2005)
34. Xerostomia and sialorrhoea (2005)
35. Correlation of histopathology and recurrence in odontogenic keratocyst(2005)
36. Apoptosis (2005)
37. Immunologic techniques in the diagnosis of pemphigus vulgaris (2002)
38. Enumerate and describe the inflammatory conditions of the lips (2002)
39. Inflammatory hyperplasia of gingiva (2002)
40. Discuss odontogenic keratocyst (2002)
41. Dentin dysplasia (2002)
42. Oral lesions in tuberculous infection (2002)
43. Discuss the developmental disturbances affecting the structure of teeth
44. Discuss the oral manifestation of Pemphigus. Add a note on its immunofluorescence.
45. Discuss the current views in the etiopathogenesis of dental caries
46. Discuss the role of bite marks in forensic odontology
47. Discuss the squeal of pulpal infection
48. Chronic sclerosing osteomyelitis (2003)
49. Median rhomboid glossitis (2003)
50. Clinical types of oral lichen planus and their histologic features (2003)
51. Enamel caries (2003)
52. Dental fluorosis (2003)
53. Discuss facial nerve paralysis (2003)
54. Discuss giant cell tumor (2001)
55. Discuss epithelial dysplasia (2001)
56. Discuss lingual thyroid (2001)
57. Discuss A.N.U.G (2001)
58. Discuss gingival enlargement (2001)
59. Discuss trigeminal neuralgia (2001)
60. Concept of premalignancy (2012)
61. Pemphigus (2012)

62. Oral submucous fibrosis (2012)
63. Mucoepidermoid carcinoma. (2012)
64. Developmental anomalies of tongue (2012)
65. Cytokeratins (2012)
66. Regressive changes in oral tissues (2012)
67. Caries vaccine (2012)
68. Clear cell neoplasma of salivary glands (2012)
69. AMUG (2012)
70. Actinomycosis (2012)
71. Osteosarcoma (2012)
72. P53 gene (2012)
73. Herpes simplex (2012)
74. Fibrous dysplasia (2012)

PAPER III. LABORATORY TECHNIQUES AND DIAGNOSIS

## LONG ESSAYS

1. Classify odontogenic tumors and write in detail about Ameloblastoma. (2012, 2014)
2. Classify odontogenic tumors and write in detail about CEOT. (2007)
3. Classify salivary gland neoplasm and write in detail about Mucoepidermoid carcinoma. (2010)
4. Component of light microscope (2012, 2014)
5. Connective tissue stains (2007)
6. Decalcification of calcified tissue (2009)
7. Diagnostic aspects of oral squamous cell carcinoma (2001)
8. Discuss common and differential stains used for histopathological study of lesions affecting oral tissues. (2004)
9. Discuss direct and indirect immunofluorescent techniques and describe the microscopes used. (2002)
10. Discuss enzyme histochemistry and its recent advances (2000)
11. Discuss Fine needle aspiration cytology and its role in diagnosis of oral lesions. (2005)
12. Discuss in detail the Papanicolaou staining technique. (2002)
13. Discuss in situ hybridization and ELISA (2006)
14. Discuss microscopy add a note on fluorescent microscope. (2006)
15. Discuss microscopy. Add a note on electron microscope.
16. Discuss special stains (2000)
17. Discuss the commonly used differential stains in oral Pathology laboratory. (2011)
18. Discuss the importance of biopsy in the diagnosis of pathological lesions. (2004)
19. Discuss the importance of stool and urine examination in clinical oral pathology. (2003)
20. Discuss the important fungi, their identification and detection. (2006)
21. Discuss the principles of tissue processing. (2006)
22. Discuss the recent advances in the evaluation of oral malignancy.
23. Discuss the role of immunohistochemistry in diagnosis of oral lesions. (2011)
24. Discuss various types of biopsy. (2005)
25. Discuss various types of microscopes and their uses. (2005, 2010)
26. Dyes and stains (2008)
27. Electron microscope and its importance in the diagnostic pathology. (2002, 2007)
28. Equipment microtome and microtomy. (2005)
29. Exfoliative cytology in relation to oral lesions. (2006)
30. Fixatives reagent (2008)
31. Frozen section (2007, 2008)
32. Histochemical method to identify protein bound amino group

PAPER III. LABORATORY TECHNIQUES AND DIAGNOSIS

33. Immunohistochemistry (2007, 2009, 2012)
34. Importance of hematology in diagnosis (2005)
35. Lab diagnosis of bacterial infection of Orofacial region
36. Lab diagnosis of HIV and AIDS (2009)
37. Lab diagnosis of pemphigus (2007)
38. Lab diagnosis of viral infection in oral cavity (2005, 2008, 2012)
39. Lab investigations for blood dyscrasias (2002, 2006, 2009)
40. Lab processing & visualization and clinical diagnosis of fibrous dysplasia (2014)
41. Laboratory diagnosis of candidiasis. (2001)
42. Laboratory investigations of fungal infections. (2010)
43. Laboratory procedures in the diagnosis of Vesicullobullous lesions.
44. Laboratory procedures with principles in hematoxylin and eosin staining and gram's staining (2003)
45. Method to identify RNA and DNA and its application (2012)
46. Microtome knives and procedure of microtomy (2011)
47. Molecular biology technique for detection of oral cancer and precancer (2009)
48. Optics of bright field microscopy (2012)
49. Oral biopsy procedure (2009)
50. Pleomorphic adenoma (2011)
51. Routine staining procedure (2007)
52. Routine stains in diagnosis in oral histopathology (2010)
53. Significance of blood in bone lesion investigation (2009)
54. Special stain- for detecting polysaccharide protein complex in pathological tissues (2001)
55. Steps of soft tissue processing (2013)
56. Theories of staining (2014)
57. Tumors of bone (2013)

PAPER III. LABORATORY TECHNIQUES AND DIAGNOSIS

## SHORT ESSAYS

1. AGNORS (2006)
2. Amyloid (2012)
3. Automatic tissue processor (2001, 2002)
4. Avidin biotin technique (2005)
5. Biopsy (2010)
6. Blood coagulation profile
7. Canalicular adenoma (2007)
8. Caries susceptibility test (2004, 2005, 2007, 2009)
9. Clearing agents (2009)
10. Computerized image analysis (2007)
11. Condensers (2006, 2012)
12. Culture Media (2005, 2009)
13. Dark field microscopy (2006, 2007, 2009)
14. Decalcification and methods (2005, 2012)
15. Decalcifying agents (2007)
16. Dehydration and clearing (2005)
17. Demonstration of iron pigments (2006)
18. Laboratory diagnosis of H.I.V. (2001)
19. Describe the hematological investigations in R.B.C disorders.
20. Describe the media used in mycology.
21. Describe the various staining procedures used for salivary glands
22. Diagnosis of candida infection (2007)
23. Dimorphism in forensic (2014)
24. Discuss antigen antibody reaction. Mention its diagnostic uses in bacteriology.
25. Discuss artifacts of fixation (2001)
26. Discuss coagulation profile (2001)
27. Discuss culture media and culture technique for candida. (2001, 2002)
28. Discuss exfoliative cytology. (2001)
29. Discuss H and E staining. (2001)
30. Discuss immunofluorescence (2001)
31. Laboratory diagnosis of anemia (2001)
32. Discuss on microtomy. (2001)

33. Discuss polymerase chain reaction. (2001)
34. Discuss salivary caries activity tests (2001)
35. Discuss the artifacts in routine histological section.
36. Discuss the faults in cryostat techniques resulting in poor results. (2002)
37. Discuss the fine needle aspiration cytology. (2003)
38. Discuss the merits and demerits of formalin – Saline fixatives. (2002)
39. Discuss the preparation, use and staining characteristics of Leishman stain. (2002)
40. Discuss the role of AgNOR's in oral pre-malignancy.
41. Discuss the role of blood investigations in various hematologic disorders.
42. Discuss the role of immunofluorescence in the diagnosis of oral dermatological lesions.
43. Discuss the role of xylene as a clearing agent.
44. DNA microarray
45. Dopa reaction (2005)
46. Double embedding. (2006)
47. Enzyme tablets (2006)
48. Exfoliative cytology (2004, 2009, 2013, 2014)
49. Factors affecting staining (2013)
50. Faults in paraffin sections (2009)
51. Field cancerization
52. Filters. (2006)
53. Fixation artifacts (2013)
54. Fixatives, Fixation (2007, 2009, 2011, 2004, 2010)
55. Fluorescent microscope (2005, 2014)
56. Frozen sections (2008)
57. Grading of oral squamous cell carcinoma (2010)
58. Grams stain (2005, 2007)
59. Ground section of tooth and its appearance. (2004)
60. Ground substance (2011)
61. Haematoxylin (2008)
62. Histopathological features of osteosarcoma (2014)
63. Histopathological types of ameloblastoma (2011)
64. Identification of carbohydrates (2010)
65. Identification of melanin (2012)
66. Immunofluorescent microscope (2005)

67. Immunohistochemistry (2006)
68. Importance of blood investigation in disease process. (2004)
69. Lab diagnosis for HIV (2002)
70. Lab investigation in candidiasis (2013)
71. Laboratory investigation of fungal lesion (2005)
72. Leukemia (2009)
73. Mast cells (2011)
74. Metachromatic stain & metachromasia (2002, 2009, 2012, 2014)
75. Methods of decalcification (2012)
76. Microscope. (2004)
77. Microslides and coverslips (2001)
78. Microtome (2005, 2006, 2010)
79. Microtomes, micrometry (2005, 2007, 2008, 2009, 2010, 2014)
80. Monoclonal antibodies (2006, 2014)
81. Mountants (2009)
82. Mucoepidermoid carcinoma (2009, 2014)
83. Oral brush cytology (2007)
84. P53 (2007)
85. PAP's stain (2002, 2011, 2012)
86. Pathology of oral submucous fibrosis (2011)
87. PCR (2014, 2010)
88. Phase contrast microscopy (2000, 2009)
89. Photomicrography (2005)
90. Pindborg tumor (2010)
91. Polarized microscope in dentistry (2013, 2014)
92. Principle and application of fluorescent microscope (2010)
93. Prion proteins and prion disease. (2006)
94. Procedure of laboratory set up (2007)
95. Procedure of museum setup (2005)
96. Prussian blue reactions (2012)
97. Resolution (2007)
98. Routine stains used in oral pathology. (2001)
99. Rugoscopy (2014)
100. Saliva as diagnostic tool (2009)

PAPER III. LABORATORY TECHNIQUES AND DIAGNOSIS

| | |
|---|---|
| 101. Sectioning artifacts | (2009, 2012) |
| 102. Sharpening knife method | (2006) |
| 103. Special stains and their uses | (2005) |
| 104. Staining of paraffin sections | (2008) |
| 105. Stains for glycogen | (2014) |
| 106. Stains for mucin | (2012) |
| 107. Trichromes stains | (2014) |
| 108. Tumor markers | (2000, 2005, 2007) |
| 109. Tumor of neural origin | (2010) |
| 110. Tumor suppressor genes | (2013) |
| 111. Types of collagen. | (2006) |
| 112. Tzanck Test | (2009) |
| 113. Vital staining | (2011) |
| 114. Write note on cryostat | |

Paper IV. LONG ESSAY

1. Acquired immune-deficiency syndrome
2. Ameloblastoma (2004)
3. Autoimmune & autoimmunity
4. Basement membrane in health and disease (2012)
5. Biochemical markers
6. Blood dyscrasias
7. Cranio facial anomalies genetic in origin
8. Developmental cysts of jaws
9. Developmental disorders of soft tissue
10. Discuss auto-immune diseases (2012)
11. Oral Carcinogenesis (2010)
12. Discuss verrucous lesions of the oral cavity (2012)
13. Discuss white lesions of oral cavity (2012)
14. Fibro osseous lesions of jaw bones
15. Forensic odontology (2005)
16. Genetic disorders
17. Giant cell lesions (2005)
18. Lichen planus
19. Molecular techniques in diagnostic pathology
20. Oncogenes and Tumorsuppressor genes

Paper IV. LONG ESSAY

21. Oral Genodermatosis
22. Oral keratotic lesions (2005)
23. Oral lesion in children
24. Oral manifestation of systemic disease
25. Oral squamous cell carcinoma
26. Oral sub mucous fibrosis (2006)
27. Oral syndromes
28. Osteodystrophies
29. Salivary gland disorders
30. Tumor markers (2010)
31. Vesicullobullous lesions of oral cavity (2010)
32. Viral oncogenesis