

Bangladesh College of Physicians and Surgeons
Mohakhali, Dhaka -1212

Content of FCPS (Final) Written examinations

Examination

Subject

FCPS (Final)

ANESTHESIOLOGY

Paper-I

(Anaesthesiology, Pain & Intensive care)

1. Patient assessment and preoperative preparation
2. Intraoperative patient care and anaesthetic techniques
3. Post operative patient care & acute pain management
4. Practical anaesthetic procedures
5. Invasive and imaging techniques
6. Regional blocks
7. Applied physics and clinical measurement
8. Quality assurance, safety & health economics

Paper-II

(Advanced Anaesthesia. Medicine & Surgery related to Anaesthesia)

1. Obstetric anaesthesia
2. Thoracic and cardiovascular anaesthesia
3. Neuroanaesthesia
4. Paediatric Anaesthesia
5. Airway assessment & Management
6. Chronic pain management
7. Anaesthesia with co-existing diseases
8. Critical & intensive care medicine
9. Emergency medicine: management of critical conditions including trauma, burn, & Organ failure.
10. Palliative medicine : Terminal care



(Professor Md. Rajibul Alam)
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Content of FCPS (Final) Written examinations

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Subject

FCPS (Final)

BIOCHEMISTRY

Paper I

1. Basic Chemistry (Biophysics biomolecule and enzymes)
2. Digestion, absorption , bioenergetics and metabolism
3. Food, Nutrition, Mineral & Vitamin
4. Lab equipt & procedures
5. Extra cellular matrix

Paper II

1. Body fluid , renal chemistry, acid base disorder
2. Molecular biology and genetics
3. Clinical endocrinology & cellular communication
4. Clinical chemistry & organ function test
5. Blood chemistry



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Content of FCPS (Final) Written examinations

Examination	Subject
FCPS (Final)	CONSERVATIVE DENTISTRY AND ENDODONTICS

Paper I

Group-A: Operative Dentistry and Dental Materials related to Operative Dentistry.

Group-B: Cosmetic Dentistry and Dental Radiology.

Paper II

Group-A: Endodontics and Dental Anaesthesia

Group-B: Surgical Endodontics and Inlay Only Crown Bridge Prosthesis

Paper I

Group-A

Operative Dentistry and Dental Materials related to Operative Dentistry

Introduction & history of operative Dentistry, studying teeth structure, prevention & treatment of defects in the enamel & dentine. Principal of cavity preparation, isolation of teeth from moisture, amalgam restoration, restoration with Pin & screw, indication use & management of composite, Glass-ionomer, acrylic & silicate materials.

Structure, properties and application of dental materials, filling materials lining & cementing materials, Investment materials, materials for casting of different operative prosthesis including dental ceramics. Oral manifestations as complications related to dental materials, systemic complications of dental materials.

Paper I

Group B

Cosmetic Dentistry and Dental Radiology

Smile and cosmetic dentistry, principles of smile design and protocols, direct esthetic restoration with Giomer, Minimally invasive dentistry, modifying tooth shape, size and colour, bleaching.

Studying of Dental X-ray film, film processing, causes of faulty roentgenogram, film interpretation, normal landmarks of jaws, extra oral radiography, Radiography of periodontal disease, Dental caries, appearance of diseased teeth & periapical tissue.

Paper II

Group-A

Endodontics and Dental Anesthesia

Introduction, history and scope of the subjects.

General and systemic aspects of endodontics, Diagnostics methods, study of the diseases of pulp & periodical tissue, endodontic morphology and access cavities, principal of root canal therapy, preparation of root canal, irrigation & sterilization of root canal, root canal medicaments, obturation of root canal, Treatment of fractured and traumatized teeth. Endodontics in children.

Principles of dental anesthesia, types of anesthetics, choice of anesthesia, techniques of anesthesia, dangers of anesthesia, systemic factors in anesthesia, complications and management of local and general anesthesia.

New advancement in anesthesia.

Paper II

Group-B

Surgical Endodontics and Inlay, Only Crown Bridge Prosthesis

Different surgical procedures related to endodontics like apisection, retrograde obturation, radisection, hemisection, root amputation, repair of perforation, reimplantation, root planning, dental implants, infection control.

Management of medically compromised patients in endodontics, oral manifestations of systemic diseases in endodontics.

Endodontic lesions related to systemic illness.

Introduction, indications of inlay & only.

Direct & indirect method for preparation of inlay & only, Post & full crown, post core crown, jacket crowns, crown on vital teeth, preparation of acrylic & ceramic crown.

Component of Bridges, indications of different type of bridges pontics & abutments.

Maintenance of jaw relation & cementations of bridges.



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Content of FCPS (Final) written examinations

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Subject

FCPS (Final)

Endocrinology & Metabolism

Paper-I

Endocrinology & Metabolism

Paper-II

Diabetology



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Content of FCPS (Final) written examinations

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Subject

FCPS (Final)

INTERNAL MEDICINE

Paper-I

1. Cardiovascular diseases
2. Gastrointestinal & pancreatic disease
3. Liver and biliary tract diseases
4. Kidney and urinary tract diseases
5. Hematological diseases & Medical Oncology
6. Medical Psychiatry
7. Nutritional disorders
8. Poisoning
9. Snake bite
10. Water electrolytes, acid base disorders and clinical biochemistry
11. Clinical immunology
12. Geriatric diseases
13. Maternal medicine

Paper-II

1. Respiratory diseases
2. Neurological diseases including stroke
3. Endocrine diseases
4. Diabetes mellitus
5. Musculoskeletal diseases
6. Infectious tropical diseases and Environmental disorders
7. Skin diseases, STD, HIV infections and AIDS
8. Acute Medicine and critical illness
9. Therapeutics and good prescribing
10. Critical Genetics
11. Pain and Palliative care
12. Good Medical Practice
13. Clinical decision making



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Content of FCPS (Final) written examinations

Examination	Subject
FCPS (Final)	RADIOLOGY & IMAGING

Paper-I

- a) RESPIRATORY
- b) CARDIOVASCULAR
- c) GASTROINTESTINAL SYSTEM
- d) HEPATOBILIARY SYSTEM
- e) METABOLIC AND ENDOCRINE SYSTEM
- f) INTERVENTION RADIOLOGY
- g) DIFFERENT X-RAY TECHNIQUES & POSITIONING, CONTRAST TECHNIQUES, INTERVENTION TECHNIQUES

Paper-II

- a) GENITOURINARY SYSTEM
- b) OBS-GYNECOLOGY SYSTEM
- c) MSK+SOFT TISSUE- BREAST
- d) CNS -HEAD NECK SYSTEM
- e) ADVANCED IMAGING TECHNOLOGY AND MODALITIES



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Content of FCPS (Final) written examinations

Examination

Subject

FCPS (FINAL)

Otolaryngology-Head and Neck Surgery

Paper-I

1. Otology
2. Neuro-otology and Audiology, Balance
3. Diseases of nose and paranasal sinuses
4. Diseases of Skull base
5. Community otology including prevention of deafness
6. Rehabilitation of severely deaf including cochlear implants, hearing aids
7. Above related pediatric disease

Paper-II

1. Basic principles of Surgery
2. Diseases of Neck
3. Diseases of the upper digestive tract
4. Diseases of the upper Airway
5. Head Neck tumours
6. Plastic surgery of Head & Neck
7. Above related paediatric diseases



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FCPS (FINAL)

Subject

PSYCHIATRY

Paper-I

General Adult Psychiatry

1. Major Mental Illness
Schizophrenia, Depressive Disorder, Bipolar Mood Disorder, Paranoid Disorder, Personality Disorder.
2. Neurotic stress and somatoform disorder
Anxiety, Phobia, OCD, PTSD, Fictitious Disorder.

The involves looking after working age adults with a wide variety of mental health needs. These problems include depression, schizophrenia and anxiety disorders. Treatment involves using medication as well as trying to influence psychological and social factors.

3. Classification of disease, preventative strategies
4. Presentation of illness and treatment
5. Hospital liaison psychiatry
6. Neuropsychiatry including old age and geriatric Psychiatry
This involves working with adults over the age of 65. They may have any of the mental health problems encountered in general adult psychiatry. In addition, a major part of the work involves the diagnosis and management of dementia.
7. Medicine relevant to psychiatry & HIV
8. Stigma and Discrimination
9. Disaster related psychiatry
10. Values based-practice and involuntary treatment
11. Research

Paper-II

1. Addictions / Substance Use Disorder

2. Child & Adolescent Psychiatry

Psychiatrists who work in this specialty assess and manage emotional and behavioral problems of children and adolescents to school leaving age. This involves team work between different professionals such as social workers, psychologists and education specialists.

3. Forensic Psychiatry

This specialty covers the interaction between psychiatry and the law. It involves treating people who have committed crimes whilst mentally ill or people who become unwell in prison. Forensic psychiatrists also write court reports and give evidence in court. They work in secure hospitals and prisons.

4. Learning and developmental disabilities

People with learning disability may have conditions such as Down's syndrome. Psychiatrists who work in this area are involved in the prevention, diagnosis and treatment of mental health problems which occur in people with learning disability.

5. Psychotherapy & Psychopathology

Commonly psychotherapy involves working with people with personality disorder, interpersonal problems, depression and anxiety. It is about using talking treatments rather than medication. A key component is building a therapeutic relationship between doctor and patient.

6. Psychopharmacology

7. Psychological Management

8. ECT (Electro-Convulsive Therapy)

9. Behavioral Science

10. Cognitive Behaviour Therapy



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FCPS (FINAL)

DERMATOLOGY & VENEREOLOGY

Paper-I

1. Papulosquamous diseases
2. Dermatoses Resulting from physical factors, pruritus and neurocutaneous dermatosis
3. Connective tissue diseases and mucinosis
4. Acne
5. Bacterial, Viral, Fungal & parasitic diseases
6. Mycobacterial diseases
7. Cutaneous bullous diseases
8. Diseases of subcutaneous fat and dermal fibrous tissue
9. Eczema, erythema, urticaria and drug reactions
10. Cutaneous manifestation of internal diseases
11. Nutritional diseases and errors of metabolism

Paper-II

1. Cutaneous tumors
 - Dermal and subcutaneous tumors
 - Epidermal nevi, neoplasm and cyst
 - Melanocytic nevi and neoplasms
 - Macrophage-monocyte disorders
 - Cutaneous lymphomas and allied diseases
2. Genodermatosis & congenital anomalies
3. Disease of skin appendages and mucous membrane
4. Cutaneous vascular diseases
5. Disorders of pigmentation
6. Sexually transmitted infections
7. Sexual disorders & infertility
8. Photobiology, photodynamic therapy
9. Therapeutics related to dermatology & venereology
10. Aesthetic dermatology & Dermatosurgery
11. Cutaneous laser Surgery



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Subject

HAEMATOLOGY

Paper-I

- 1) General haematology: Development of haemopoietic system. Formation and functions of blood and blood cells.
- 2) Red cell disorders. Approach to patients with anaemia.
- 3) Transfusion medicine and immune-haematology.
- 4) Anaemia of systemic disorders. Haematology of infectious diseases.
- 5) Cytogenetics.
- 6) Transplantation.

Paper-II

- 1) Disorders of leucocytes
- 2) Haemorrhagic disorders
- 3) Thrombo-embolic disorders
- 4) Neonatal and paediatric haematology
- 5) Laboratory haematology
- 6) Recent advances in haematology



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FCPS (Final)

PHYSICAL MEDICINE & REHABILITATION

Paper-I

Group A

- 1) Rehabilitation of stroke & other neurological diseases
- 2) Rehabilitation of Children with brain damage & other paediatric neurological disease
- 3) Cardiopulmonary Rehabilitation
- 4) Rehabilitation of ICU patients

Group B:

- 1) Rehabilitation of rheumatological diseases
- 2) Rehabilitation of Endocrine & Metabolic diseases
- 3) Rehabilitation of geriatric patient
- 4) Rehabilitation of lymphedema
- 5) Rehabilitations of patients with cancer & cancer pain

Paper-II

Group A:

- 1) General Physical Medicine & Rehabilitation
- 2) Physics & Electronics in Physical Medicine & Rehabilitation
- 3) Therapeutic exercises & massage
- 4) Epidemiology
- 5) Research Methodology
- 6) Occupational Therapy
- 7) Sports Medicine
- 8) Management of chronic pain
- 9) Rehabilitations of patient with burn injury

Group B:

- 1) Rehabilitation of post surgical orthopedic conditions & Other post surgical conditions
- 2) Traumatic Brain Injury
- 3) Orthoses
- 4) Prostheses
- 5) Foot wear & Foot wear modification



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Subject

OBST. & GYNAE

Paper-I

- 1) Inheritance of genetics disorder
- 2) Comprehensive knowledge of normal and abnormal karyotypes
- 3) Importance of prenatal counseling for genetic disorder

Biochemistry:

Biochemical changes during pregnancy & associated disorders –like hyperemesis, Diabetes, PET.

Endocrinology: Related to reproductive organs & pregnancy

Pharmacology:

Particular knowledge of those drugs used in obstetrics & Gynae/Effects, contraindications.

Immunology:

Immunological changes in pregnancy

Foetal development of the immune systems.

Rh & others (HIV)

Pregnancy:

Foetal development / abnormalities

Placental development Antepartum foetal surveillance /Care/Important procedure

Intrapartum

Pospartum:

Maternal mortality, Audit

Abnormal pregnancy –Labour / puerperium

PPH

Obstetrical analgesia/anaesthesia

Mortality, Morbidity (Mother & Neonatal)

Safe mother hood / MDG-5

Disease-Pregnancy with anaemia / heart disease SLE, Jaundice, Viral disease, Diabetes, Tuberculosis, Renal disease.

Paper-II

1. Genetic causes of infertility, abortions
2. Development defects of genital organs
3. Impacts of defects on the genital organs

Pathology

- a) Basic pathological changes in the genital tract such as Cx/Ut/Ovary/Vulva vagina
- b) Diagnostic tools-Paps, colposcopy, FNAC
Pharmacology-Particular knowledge of those drugs used in obstetrics & Gynae /
Effects, contraindications.

Gynaecology

Congenital anomalies
Sex linked disorder
Autosomal disorder
Puberty-disorder
Adolescent & sexual disorder
Menstruation Disorder
DUB
Pathophysiology, Investigation diagnosis & management
Menopause disorder-Premature ovarian failure management, HRT.
Infertility-causes & investigations Art, Male & female problems

Benign & malignant

Tumors- Causes/ Investigations & diagnostic feature & screening for
Oncology-staging/screening
Infectious disease-STD, Non STD
Contraception-merits & demerits modern methods
Types, non contraceptive benefits
Urogyane- incontinence , injury to genial organs
Types/investigations/management
Post operative complications & managements
Early pregnancy bleeding-
Abortion/Ectopic/Molar Pregnancy
Choric carcinoma & others
Guide line for molar pregnancy & complications-
Ca. cervix
Endometrial-Ca
Chemotherapy/Radiotherapy



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Subject

RADIOTHERAPY

Paper-I

1. **Principle of Radiation therapy:**
Ionizing radiation, planning for radiation, Radiobiology, Radiation Protection
2. **Cancer of the head & neck region**
Carcinoma Larynx, Oral cavity, thyroid, Nasopharynx
3. **Lung cancer**
4. **Breast Cancer**
5. **Brain tumours**
6. **Bone tumours**
7. **Soft tissue tumours**
8. **Oncological Emergencies & paraneoplastic syndrome**
9. **Prevention & management of radiation toxicities**
10. **Ethics of good oncology practice**

Paper-II

1. **Principle of chemotherapeutic and biological agents. Classification & mode of actions of**
antineoplastic drugs, side effects & toxicities. Monoclonal antibodies, anti-angiogenic chemicals and anti-estrogen agents.
2. **Gastro intestinal Cancer:**
Carcinoma oesophagus, stomach, pancreas and hepatobiliary system
3. **Colon, rectum and anal cancers**
4. **Genitourinary malignances:**
Carcinoma Prostate, testes, Urothelial, Kidney & Bladder.
5. **Gynaecological malignances:**
Cervical, Endometrial, Ovarian & gestational trophoblastic tumours
6. **Skin Cancers:**
7. **AIDS-related malignancies**
8. **Carcinoma of unknown primary**
9. **Haematological malignancies**
Hodgkin's Disease, Non Hodgkin's Lymphoma, Acute & Chronic Leukemia's
10. **Palliative & supportive care.**



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Subject

PATHOLOGY

Paper-I

1. Diseases of the cardio vascular system
2. Diseases of White blood cells, red blood cells, lymph nodes, Spleen and thymus
3. Diseases of the head and neck including oral pathology
4. Diseases of the gastrointestinal tract
5. Diseases of the liver and biliary tract
6. Diseases of the pancreas
7. Diseases of the kidney & upper urinary tract
8. Diseases of the lower urinary tract and male genital system
9. Diseases of the female genital tract & breast
10. Diseases of the endocrine system

Paper-II

1. Diseases of the skin and adnexae
2. Diseases of the bones and Joints
3. Diseases of the soft tissues
4. Diseases of the central nervous system including diseases of the Eye
5. Diseases of the muscular system
6. Infectious diseases
7. Diseases of the environmental and nutritional diseases
8. Diseases of the infant and childhood
9. Forensic pathology
10. Medical and molecular genetics
11. Recent advances of modern histopathology



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Subject

MICROBIOLOGY

Paper I

1. General Bacteriology
2. Systemic Bacteriology
3. Parasitology
4. Mycology

Paper-II

1. Immunology
2. Virology



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Subject

PROSTHODONTICS

Paper-I

Group-A: Partial Denture prosthesis and Dental materials.

Group-B: Complete denture prosthesis and cast metallic dentures

Paper-II

Group-A: Immediate dentures and Inlay-Crown-Bridge Prosthesis with Dental Anesthesia.

Group-B: Implantology and Maxillo-facial prosthesis with dental Radiology.

Paper-I (Group-A)

Prothodontics and related dental materials :

A course of advanced study in Prosthodontics relevant to general dental practice consisting of lectures, tutorials, clinical and paraclinical assignments and written works and training in research method. This course is designed to provide the student with more detailed knowledge of the principle and practice to Prosthodontics including study of the materials and technology commonly employed.

Dental Materials : Structure properties and application of dental materials, plastic and non-plastic impression materials, model and die materials; non-metallic denture base, filling materials, lining and cementing materials waxes, investment gold and gold alloys, metallic denture base materials steel and stainless steel, dental wire, dental porcelain etc.

Paper-I (Group-B)

Complete Denture Prosthesis:

Introduction, Retention of Complete denture, Impression technique, Designing of complete denture with plastic and metallic bases, prosthetic aids to oral surgery, orthodontics and periodontology, complaints of complete denture and their remedies, Complete denture and general health relationship.

Paper-II

Group-A

Immediate Denture prosthesis:

Introduction, Indications, Design and technique of immediate denture construction, complaints and their management.

Complete Denture Prosthesis:

Paper-II

Group-B

Denture prosthesis:

Introduction, Indications, Impression technique, clasps, castings in partial denture, surveying, designing of partial denture, complaints and their management's.

Inlay, Crown and Bridge Prosthesis : Introduction, Indications, of crown and bridge prosthesis, Full veneer crown, $\frac{3}{4}$ crown, post retained crown, temporary crowns, Advanced restorative dentistry, crown of vital teeth, fitting of gold restorations, Designing of saddle and pontics in bridge prosthesis, complaints and their management.

Implantology:

Pretreatment consideration, Medical evaluation, Historical perspective of Dental implants, Anatomical consideration, Radiographic planning, Healing of Endosseous implants, Biocompatibility, Biomechanics of Dental Implant, Principles of Implant considerations in prosthodontics, Periodontics, Restorative & Surgical consideration, Implant overdenture, Hybrid dentures, soft tissues & Microbiological considerations in Dental Implants.



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Subject

FCPS (Final)

ORAL & MAXILLOFACIAL SURGERY

Paper-I

Group-A: General principles of medicine & surgery

Group-B: Basic oral & maxillofacial surgery with dento-cranio-facial radiology.

Paper-II

Group-A: Anesthesiology & hospital management.

Group-B: Advanced oral & maxillofacial surgery with plastic & reconstructive surgery.

Details:

Paper-I

Group A

Medicine & Surgery:

Medicine and surgery in relation to dentistry sufficient for understanding the general aspect of the subject. The etiology, diagnosis and treatment of the diseases and conditions which are related to the dental and maxillofacial surgical treatment.

Medicine:

Candidates are expected to elicit an accurate and clear history and the basic physical signs, symptoms and treatment of systemic diseases with special emphasis on their oral manifestations.

The general outline of the syllabus for this subject which include the following:

Diseases due to infection- Enteric fever, Diphtheria, Scarlet fever, Rheumatic Fever, Erysipelas, undulant fever, Whooping cough, Measles, Chicken and Smallpox, Tuberculosis, Tetanus, Syphilis Gonorrhea, Leprosy. Vitamins and diseases due to deficiency of vitamins. Disturbance in water and electrolyte balance.

Diseases of cardiovascular system-Shock, cardiac failure mitral stenosis, infective endocarditis, coronary heart disease and angina pectoris, myocardial infarction, hypertension. Diseases of respiratory system like common cold, influenza, laryngitis, Bronchitis, Pneumonia. Diseases of the Alimentary tract and pancreas stomatitis, candidiasis, disorders of tongue and salivary glands, dyspepsia, peptic ulcer, gastritis, dysentery, diarrhea, colitis, carcinoma of the stomach, acute and chronic pancreatitis.

Liver and biliary tract diseases like hepatitis, cirrhosis of liver, cholecystitis

Kidney and Urinary system- Glomerulonephritis, renal failure.

Endocrine and metabolic diseases-Hypopituitarism, Diabetes insipidus, hypo and hyperthyroidism, hyperparathyroidism, tetany, Cushing's syndrome Addison's disease, Diabetes mellitus.

Diseases of blood and blood forming organs- Anemia, Agranulocytosis, Infectious mononucleosis, Leukemia, myelomatosis, Hemorrhagic disorder

Diseases of connective tissues, joints and bones- Rheumatoid arthritis Gout, Osteoarthritis, Paget's disease.

Diseases of Nervous system-Bell's palsy, Trigeminal neuralgia, Nystagmus, squint, Epilepsy's, Headache, Migraine, Herpes Zoster, Multiple sclerosis Vit-B neuropathy paraplegia.

Tropical diseases and Helminthic infections-Anaemias in the tropics Malaria, Amoebiasis, Leishmaniasis, Cholear, Anthrax Ankylostomiasis, Filariasis.

Surgery:

Detailed knowledge of the regional surgery of the face, lips, salivary glands, skull and jaws, the-outline of which are as follows :

Skin- Cysts and tumors occurring in the skin, skin graft. Mouth and tongue-Hare lip and cleft palate, inflammation and ulceration, leukoplakia, tumors, carcinoma of the tongue and lip.

Jaws- Dislocation of the jaws and clicking jaw, Fractures of the Mandible and Maxilla, Osteomyelitis, Actinomycosis and tumors of the jaw.

Salivary gland- Inflammation of parotid and sub . glands, calculus and tumors of salivary glands.

Neck- Brachial cyst and fistula, cystic hygroma, traumatic lesions of neck lymph adenitis, carotid body tumor, D/D of a cervical swelling.

Thyroid and parathyroid gland- Goiter, hyperthyroidism, thyroiditis, carcinoma of the thyroid, hypo and hyper thyroidism. Principles of management of hemorrhage, malignant disease and surgical aspect of pain.

Skull- Head injuries, infection of scalp, Brain abscess, pituitary and cerebral tumors.

General knowledge of the surgical principles and practice, the general outline of which are as follows :

Surgical aspect of infection- Acute infection: cellulitis, abscess, boils, carbuncles, specific infection, Gas gangrene, Tetanus, Anthrax, Candida Albicans, Chronic infections, Tuberculosis syphilis, Actinomycosis, Hospital infection and its control chemotherapy.

Surgical aspects of injury and repair- Healing of wounds, its complications and treatment, shock, Blood transfusion, water and electrolyte balance in surgical patients, pre and post operative management of surgical patients, Burns.

Paper-I **Group B**

Basic Oral & Maxillofacial Surgery:

The course is designed to offer detailed knowledge of basic & clinical Oral & Maxillofacial Surgery like aseptic precautions, fluid & electrolyte balance, management of hemorrhage, pre & post-operative surgical management, oral mucosal lesions, minor oral surgical problems, general idea about anesthesiology & hospital management.

Details of course:

1. Aseptic and antiseptic management and OT procedure.
2. Wound and sepsis.
3. Ulcers of oral mucosa.
4. Lymphatics and lymph nodes.
5. Fluids, electrolytes and acid-base balance, blood & product replacement.
6. Response to hemorrhage and management of shock.
7. Response to stress/shock.
8. Respiratory obstruction and management.
9. Pre-operative post-operative assessments.
10. Principles and practices of radiotherapy and radio isotopes in OMF surgery.
11. Tracheostomy and intubation
12. Usual procedure in common minor oral surgery such as dental cyst, apicectomy, 3rd molar surgical extraction, simple jaw fracture, Osteomyelitis, cellulitis, abscess.

Paper-II**Group- A**

Anesthesiology: Introduction to local and general anesthesia, mode of action of local and general anesthesia, drugs used in local and general anesthesia and their toxicity, complications.

Hospital management: Wound cleaning, sterility, fluid and electrolyte balance, temperature chart.

Paper-II**Group-B****Advanced Oral & Maxillofacial Surgery:**

The course is designed to offer detailed knowledge of advanced Oral & Maxillofacial Surgery like-fractures of facial bones, odontogenic & non-odontogenic tumors and cyst, pre- malignant and malignant oral lesions, salivary gland disorder, TMJ disorders and facial deformities.

Detail of Course:

1. Fractures of the mandible, maxilla, zygomatic bone etc. Injuries of facial hard & soft tissue.
2. Odontogenic tumor (a) soft tissue (b) hard tissue.
3. Non-odontogenic tumor (a) soft tissue (b) hard tissue and cystic lesions of the jaws.
4. Pre-malignant conditions of the Oral mucosa & Oral cancer.
5. Salivary gland diseases.
6. TM Joint disorders & arthralgia.
7. Orthognathic problems & their surgical management.
8. Reconstructive surgery - D.P. flap, forehead flap, bone grafting (ribs & iliac bone). Hard & soft tissue replacement.
9. Cleft lip & palate.
10. Disease of maxillary sinuses.



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Examination	Subject
FCPS (Final)	Orthodontics & Dentofacial Orthopedics

Paper-I

Group A & B

Fixed Orthodontics and Dental & Cephalometric Radiography:

1. The relevant embryology, anatomy and physiology of craniofacial and dental structures.
2. Normal and abnormal growth and development of the face and jaws and Dentition, Soft tissue pattern & behavior.
3. Mixed dentition, early loss, & etiology of malocclusion, Preventive Orthodontics
4. Radiology and cephalometry, CBCT, RVG
5. General principles of Orthodontics and Dentofacial Orthopedics.
6. Removable and Myo-Functional Orthodontics
7. Diagnosis, planning and treatment of simple and complex malocclusions using a range of removable, functional and fixed appliances.
8. Construction and uses of different Removal and functional appliances.
9. The mechanisms of tooth movement, biomechanics and dentofacial orthopedics.
10. Iatrogenic effects of orthodontic treatment.
11. Orthodontic materials sciences,
12. Structure properties and application of dental materials, Different type of Orthodontic wires SS, Ni-Ti etc, Elastics , impression materials, model and die materials
13. Epidemiology and indices in orthodontic research.
14. Biostatistics and research methodology.

Paper-II

Group A & B

1. Cephalometric techniques as a tool of Orthodontic diagnosis, growth prediction and VTO preparation (Visual treatment object)
2. Interceptive Orthodontics
3. Introduction and development of different fixed appliance technique.
4. Construction of Fixed appliance, Wire bending exercise, Band formation, Bracket Anatomy and Typodont course in the pre-adjusted, Edgewise standard edgewise technique, Beg technique, Straight wire technique etc.
5. Accessories: Construction of Head gear, Cervical strap, Chin cap, Lip bumper, Tongue guard, Lingual Arch, Palatal Bar etc.

6. Temporary Anchorage Device (TAD)
7. Different Tooth movement Technique: First order movement, Second order movement, Third order movement.
8. Multidisciplinary treatment procedures including cleft lip and cleft palate management, surgical-orthodontic treatments and orthodontic-restorative treatments, Orthodontics related to TMJ Dysfunction periodontology and children dentistry.
9. Orthognathic Surgery
10. Orthodontic treatment consideration in systemic diseases & syndromic diseases
11. Iatrogenic effects of orthodontic treatment.
12. Long term effect of orthodontic treatment.
13. Invisaging Orthodontic Technique /Lingual orthodontic Technique
14. MBT, Non ligating orthodontic bracket system etc



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Controller of Examinations, BCPS

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Content of FCPS (Final) Written Examinations

Examination

Subject

FCPS (Final)

SURGERY

Paper-I

1. Principles of Surgery
2. Gastro-enterology
3. Hepato-biliary pancreas & Spleen. Abdominal wall
4. Urology

Paper-II

1. Neurosurgery & Paediatric Surgery
2. Orthopaedics
3. Endocrine
Head Neck
Breast
4. Thoracic & Cardiovascular
Plastic Surgery



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Content of FCPS (Final) Written Examinations

Examination

Subject

FCPS (Final)

PAEDIATRICS

Paper-I

1. Growth, development and behavior
2. Nutrition
3. Human Genetics
4. Metabolic diseases
5. Neonatology
6. Infectious diseases & Immunization
7. Digestive system including liver and biliary system
8. Haematology and oncology
9. Dermatology
10. Paediatric psychological disorders
11. Community paediatrics including health related Government programmes

Paper-II

1. Body fluid and fluid therapy
2. Accident and poisoning
3. Adolescent Medicine
4. Rheumatic Diseases of childhood (connective tissue diseases, collagen vascular diseases)
5. Respiratory system
6. Cardiovascular system
7. Nephrology and Urology
8. Endocrinology
9. Neurology
10. Neuromuscular disorder
11. Bone and joint disorder
12. Paediatrics surgical problems



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Content of FCPS (Final) Written Examinations

Examination	Subject
FCPS (Final)	GYNAECOLOGICAL ONCOLOGY

Paper-I (Clinical Gynaecological Oncology)

1. Cervix
 - a) Pre-invasive
 - b) Invasive disease
2. Ovarian, fallopian tube and primary peritoneal cancer.
3. Uterine neoplasm
4. Vulvar
 - a) Vulvar dystrophies
 - b) Pre-invasive disease
 - c) Invasive disease
5. Vaginal cancer.
6. GTD.
7. Gynaecological cancer in pregnancy.

Paper-II (Basics and Related Subjects)

1. Cancer epidemiology.
2. Pathology.
3. Radiology and Tumour imaging.
4. Basic surgery, surgical oncology and colorectal surgery.
5. Uro-oncology.
6. Radiotherapy in gynae cancer.
7. Chemotherapy in gynae cancer.
8. Palliative care and rehabilitation.



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Content of FCPS (Final) Written Examinations

Examination

Subject

Preliminary FCPS

Preli-Surgery

Disciplines

1. Cardiovascular Surgery
2. Neuro Surgery
3. Orthopaedic Surgery
4. Paediatric Surgery
5. Plastic and Reconstructive Surgery
6. Thoracic Surgery
7. Urology

Paper-I

1. Wounds, tissue repair and scars
2. Shock and blood transfusion
3. Surgical infections
4. Metabolic response to injury
5. Preoperative preparation
6. Anaesthesia
7. Postoperative care and ICU
8. Nutrition
9. Trauma, burn, digestive surgery, ATLS
10. Transplants, Graft and flap

Paper-II

1. Principles of laparoscopic and robotic surgery
2. Principles of paediatric surgery
3. Principles of oncology
4. Surgical audit and clinical research
5. Surgical ethics and law
6. Patients safety
7. Diagnostic imaging
8. Tissue diagnosis
9. Electro surgical equipment's
10. Skin and subcutaneous tissue



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Content of FCPS (Final) Written Examinations

Examination

Subject

FCPS (Final)

UROLOGY

Paper-I

1. General Urology
2. Investigations of urology
3. Female urology
4. Reconstructive urology
5. Andrology
6. Infertility

Paper-II

1. Stone disease
2. Uro-oncology
3. Paediatric urology
4. Transplant urology
5. Operative & Endoscopic surgery
6. Miscellaneous:
 - Laser
 - Robotic Surgery
 - Recent Advancement.



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Content of FCPS (Final) Written Examinations

Examination

FCPS (Final)

Subject

OPHTHALMOLOGY

Paper-I

Contents

1. Optics & Refraction.
2. Sclera, Cornea and External Diseases.
3. Uveitis and ocular inflammation.
4. Systemic diseases affecting the eye.
5. Neuro Ophthalmology.
6. Community Ophthalmology.
7. Ocular genetics and immunology.
8. Ocular oncology.
9. Low vision rehabilitation.
1. Imaging in Ophthalmology.
2. Ocular anaesthesia.
3. Emergency situations and their management in Ophthalmology.
4. Medical ethics.

Paper-II

Contents

1. Principles of Ophthalmic Surgery.
2. Lens and Cataract.
3. Refractive surgery.
4. Glaucoma.
5. Vitreo-Retina.
6. Pediatric Ophthalmology.
7. Orbit & Oculoplasty including Adnexa.
8. Dry eye disorders.
9. Ocular Trauma.
10. Laser in Ophthalmology.

1. Principles of Ophthalmic Surgery

- Fundamentals & basic principles of general & ophthalmic surgery.
 - i. Procedures of changing room.
 - ii. Hand wash & gloving.
 - iii. Preparation of operation field & draping,
 - iv. Incision, suturing & suture materials.
- Anesthesia (GA, L/A, Regional, Topical, Infiltration).
- Sterilization.
- Hospital infection & cross infection.
- Environment of operation theatre.
- Diathermy.
- Shock and it's management.
- Preoperative and Postoperative management.
- Principles of Laser



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Contents of FCPS (Final) Written Examination

Examination

Subject

FCPS (Final)

Vitreo-Retina

Contents of Paper I

- Basic science, anatomy, development, ageing and physiology of eye and retina
- Mechanisms of injury to the retina
- Vitreous and vitreo-retinal interface disorders
- Genetic based retinal diseases
- Immunological, inflammatory diseases / uveitis
- Geriatrics disorders
- Retinal imaging and diagnostics
- Drug toxicity of the retina
- Tumors of retina, choroid and vitreous
- Good Medical Practice, Ethics and law

Contents for Paper II

- Retinal degenerations and dystrophies
- Retinal vascular disease
- Choroidal vasculature and Bruch's membrane disease
- Infectious & Tropical Diseases
- Environmental & nutritional diseases
- Pharmacotherapy of retinal disorders
- Pediatric retinal disorders
- Retinal problem related to refractive disorders
- Retinal problem related to systemic disorders.
- Complications related to retinal surgery



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Content of FCPS (Final) Written Examination

Examination

Subject

FCPS (Final)

Colorectal Surgery

Paper-I

Benign Diseases (Non-Neoplastic Colorectal Condition)

Paper-II

Malignant (Non-Neoplastic Colorectal Condition)



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Content of FCPS (Final) Written Examination

Examination

Subject

FCPS (Final)

**Paediatric Endocrinology and
Metabolism**

Paper-I

- Growth and development
- Disorders of growth hormone and pituitary hormone
- Thyroid disorders
- Water, electrolyte and acid-base balance
- Imaging
- Disorders of calcium, phosphate and metabolism
- Principles of hormone management
- Fetal and neonatal endocrinology
- Endocrine consequences of systemic disorders

Paper-II

- Disorders of pubertal development
- Chromosomal disorders
- Adrenal gland
- DSD
- Diabetes mellitus
- Hypoglycaemia
- Polyglandular endocrine system
- Community paediatric endocrinology
- Obesity
- Miscellaneous



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Content of FCPS (Final) Written Examination

Examination

Subject

FCPS (Final)

Surgical Oncology

Paper- I

- Principles of Medical/ Radiation oncology
- Gastro-intestinal malignancy
- Hepato-biliary pancreas and spleen cancers
- Gynae-oncology, Genitourinary cancers
- CUP, Surgical emergency in cancer patients, peritoneal surface malignancy

Paper- II

- Neurosurgical and Paediatric surgical oncology
- Orthopaedics (STS+Bone sarcoma), skin malignancy
- Endocrine cancers
- Head Neck cancer
- Breast cancer
- Thoracic malignancy
- Plastic & reconstructive surgery in surgical oncology practice



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Content of FCPS (Final) Examination

Examination

Subject

FCPS (Final)

Nephrology

Paper-I

1. Assessment of the patient with renal disease.
2. The patient with fluid, electrolytes and divalent ion disorders.
3. The patient with glomerular disease
4. Kidney in systemic disease
5. The patient with tubular disorders
6. The patient with interstitial disease
7. Patient with urinary tract infection
8. Patient with renal stone disease
9. Patient with renal hypertension
10. AKI
11. Palliative nephrology

Paper-II

1. The patient with failing renal function
2. Patient on dialysis
3. The transplant patient
4. Specific problems in Chronic renal insufficiency
5. The pregnant patient and kidney
6. Patient with inherited kidney disease
7. The patient with structured and congenital abnormalities of genitourinary system
8. Onconeurology
9. Pharmacology and drug use in kidney patients



(Professor Md. Rajibul Alam)
Controller of Examination, BPCS

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Content of FCPS (Final) Written Examination

Examination	FCPS (Final)
Subject	Physiology

Paper I:

1. Physiology of blood and its clinical application.
2. Cardiovascular Physiology and its clinical application.
3. Respiratory Physiology and its clinical application.
4. Body fluid and Renal Physiology and its clinical application.
5. Basics of Medical Education.
6. Research methodology and Biostatistics.
7. Information and Communication Technology (ICT)[†]

Paper II:

1. Gastrointestinal Physiology and its clinical application.
2. Endocrine Physiology and its clinical application.
3. Reproductive Physiology and its clinical application.
4. Neurophysiology and its clinical application.
5. Physiology of Special Senses and its clinical application.
6. Exercise and sports Physiology.



Professor Md. Rajibul Alam)
Controller of Examination, BPCS

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Content of FCPS (Final) Written Examination

Examination	FCPS (Final)
Subject	Community Medicine

Paper I: Communicable Diseases

1. Basic Concepts of Communicable Diseases
2. Respiratory Infections
3. Intestinal Infections
4. Arthropod-borne infections
5. Zoonoses
6. Surface infections
7. Emerging and Re-emerging infections
8. Hospital Acquired Infections
9. Communicable diseases in complex emergencies
10. Communicable disease surveillance and response systems
11. International laws and communicable diseases

Paper II: Non-communicable Diseases

A) Basic Concepts of NCDs

1. Introduction to NCDs
2. Environmental and life style issues in NCDs
3. Burden of NCDs

B) Applied NCDs

1. Diabetes
2. Cardiovascular Diseases, Hypertension and Stroke
3. Chronic Respiratory Diseases
4. Cancer
5. Chronic Liver Disease
6. Peptic Ulcer Diseases (PUD)
7. Common Dental Problems
8. Emerging Diseases: Arsenicosis, Endemic goiter, Obesity, Metabolic syndrome
9. Accident and Injuries
10. Geriatric Health problems
11. Health Care of Handicapped
12. Metabolic and Endocrine Diseases: Thyroid Diseases and Dislipidaemia

C) Prevention and Control of NCDs

D) Globalization and NCDs

E) Principles of Management of NCDs



Professor Md. Rajibul Alam
Controller of Examination, BCPS