Paper II: Technical Subject Section (A) - 45 Marks (1 critical analysis Q -15 mark + 3 long Q- 30 marks)

1. Basic & Applied

1.1 **Applied Surgical Anatomy**

- 1.1.1 Required to have acknowledge of the structure and function of all system of the body (where applicable to common clinical conditions in surgery)
- 1.1.2 Knowledge of histology to understand the function to tissue and organs as well as growth, degeneration and repair
- 1.1.3 Embryological basis of common congenital anomalies

1.2 **System**

- 1.2.1 Nervous system
- 1.2.2 Respiratory system
- 1.2.3 Cardiovascular system
- 1.2.4 Digestive system
- 1.2.5 Endocrine system
- 1.2.6 Musculoskeletal system
- 1.2.7 General e.g. Acid-base balance, fluid and electrolyte balance, nutrition, metabolic response to trauma and sepsis, etc.

2. **Applied Physiology**

3. Surgical Pathology

- 3.1 Knowledge of the surgical pathology and microbiology in the context of surgery including inflammation, infection, neoplasm, response on the tissues to injury, disturbance of growth, degeneration processes, repair and regulation
- 3.2 Immunology and Genetics
- 3.3 Neoplastic diseases
- 3.4 Gross and histopathology of common surgical conditions
- 3.5 Nervous system
- 3.6 Respiratory system
- 3.7 Cariovascular system
- 3.8 Genito-urinary system
- 3.9 Gastrointestinal system
- 3.10 Muscleskeletal system

4. Critical Care

- 4.1 Basics of pathophysiology, approach and management of critical surgical situation e.g. Trauma, shock, sepsis, organfailure
 - 4.1.1 Clinical pictures
 - 4.1.2 Investigation
 - 4.1.3 Diagnosis confirmation

- 4.1.4 Management—use of equipments
- 4.1.5 Monitoring–complications
- 4.1.6 Counseling communication
- 4.1.7 Follow-up

5. Recent advance

- 4.2 Research-inside country
- 4.3 Recent advance–international
- 4.4 Not published research work
- 4.5 Future national vision

Section (B) - 55 Marks (1 critical analysis Q -15 marks + 4 long Q -40 marks)

6. Surgical Management

- 6.1 Principle of management of common general surgical conditions
 - 6.1.1 Clinical practice (History and examinations)
 - 6.1.2 Investigation
 - 6.1.3 Provisional Diagnosis and differentials
 - 6.1.4 Treatment-Conservative, operative, palliative
 - 6.1.5 Monitoring
 - 6.1.6 Follow-up-of the patients with general surgical condition of following systems
 - 6.1.6.1 Nervous system
 - 6.1.6.2 Respiratory system
 - 6.1.6.3 Cardiovascular system
 - 6.1.6.4 Gastrointestinal system
 - 6.1.6.5 Genitourinary system
 - 6.1.6.6 Endocrine and breast
 - 6.1.6.7 Musculo-skeletal system and soft tissue
 - 6.1.6.8 Trauma/Polytrauma

7. **Principles of Surgery**

- 7.1 Knowledge of the General principle and practice of Surgery
 - 7.1.1 Imaging techniques/interventional Radiology
 - 7.1.2 Endoscopy/Laparoscopy
 - 7.1.3 Surgery at extremes of life
 - 7.1.4 Theatre techniques
 - 7.1.4.1 Aseptic techniques-sterilization
 - 7.1.4.2 Anesthesia in general, maintenance of homeostasis
 - 7.1.4.3 Basic techniques—suturing material dressing plaster
 - 7.1.4.4 Diathermy and electrosurgical devices
 - 7.1.4.5 Tourniquet

- 7.1.5 Wound healing, dehiscence, scar, contractures
- 7.1.6 Post operative complication and management
- 7.1.7 Sepsis's surgery
 - 7.1.7.1 Acute and Chronic, inflammation
 - 7.1.7.2 Wound infection and septicemia
 - 7.1.7.3 TB, Leprosy, AIDS, Bacterial infection
 - 7.1.7.4 Antiseptic, Antibiotic policies

8. **OperationSurgery**

8.1 Nervous System

- 8.1.1 Exposure to extradural haematoma
- 8.1.2 Skull traction
- 8.1.3 Nerve repair and transplant
- 8.1.4 Trauma–skull, strive

8.2 **Respiratory System**

- 8.2.1 F.B. in respiratory tract
- 8.2.2 Tracheostomy, cricothyroidotomy
- 8.2.3 Chest Drainage
- 8.2.4 Thoractomy
- 8.2.5 Chesttrauma (variety of injuries)

8.3 Cardiovascular

- 8.3.1 Cardiac Tamponade
- 8.3.2 Exposure to artery and vein, embolectomy
- 8.3.3 Amputations

8.4 Gastrointestinal System

- 8.4.1 All type of GI Surgery of all magnitude and types
- 8.4.2 Different combination of operation
- 8.4.3 Except-transplantation

8.5 **Genitourinary system**

- 8.5.1 Suprapublic bladder drainage
- 8.5.2 Cystocscopy
- 8.5.3 Exposure of kidney, calculus, obstructive uropathy
- 8.5.4 Perinephric abscess
- 8.5.5 Scrotal/testicular operation
- 8.5.6 Ectopic pregnancy/otherpelvicsurgery

8.6 Endocrine and breast

- 8.6.1 Thyroid/parathyroid
- 8.6.2 Breast surgery (noreconstruction)

8.7 Musculoskeletal and soft tissue

- 8.7.1 Simple skeletal traction
- 8.7.2 Compartmental syndrome
- 8.7.3 Bone infection

8.8 Plastic

- 8.8.1 Simple ceftlip repair
- 8.8.2 Skin grafting /flaps
- 8.8.3 Skin lesion
- 8.8.4 Lymph node and biopsy

8.9 **Other**

- 8.9.1 Venesection centralline
- 8.9.2 Laryngoscope, E Tintubation
- 8.9.3 FNAC /tru-cut needle biopsy
- 8.9.4 Defibrillation

Following pattern will be used for formation of paper I & II as far as possible.

Paper I				
Part	Section	Weightage	No. Questions & Weightage	
			Objective Multiple Choice	Subjective
I	A	20		2 Questions x 10 Mark = 20
	В	30	76	3 Questions \times 10 Mark = 30
II	С	25	25 Questions x 1 Mark = 25	
	D	25	25 Questions x 1 Mark = 25	
Paper II				
Section		Weightage	No. Questions & Weightage	
			Long answer	Critical Analysis
A		45	3 Questions \times 10 Mark = 30	1 Questions x 15 Mark = 15
В		55	4 Questions \times 10 Mark = 40	1 Questions \times 15 Mark = 15

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