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# Competency Table

Number	COMPETENCY The student should be able to	Core (Y/N)	Suggested teaching learning method	Suggested assessment method	Chapter No.	Page No.
<b>Topic: Metabolic Response to Injury</b>						
SU1.1	Describe basic concepts of homeostasis, enumerate the metabolic changes in injury and their mediators.	Y	Lecture, bedside clinic, small group discussion	Written/viva voce	1	1
SU1.2	Describe the factors that affect the metabolic response to injury.	Y	Lecture, bedside clinic, small group discussion	Written/viva voce	1	2
SU1.3	Describe basic concepts of perioperative care.	Y	Lecture, bedside clinic, small group discussion	Written/viva voce	1	11
<b>Topic: Shock</b>						
SU2.1	Describe pathophysiology of shock, types of shock and principles of resuscitation including fluid replacement and monitoring.	Y	Lecture, small group discussion	Written/viva voce	5	83
SU2.2	Describe the clinical features of shock and its appropriate treatment.	Y	Lecture, small group discussion	Written/viva voce	5	87
SU2.3	Communicate and counsel patients and families about the treatment and prognosis of shock demonstrating empathy and care.	Y	DOAP session	Skill assessment	5	83
<b>Topic: Blood and Blood Components</b>						
SU3.1	Describe the indications and appropriate use of blood and blood products and complications of blood transfusion.	Y	Lecture, small group discussion	Written/viva voce	6	97
SU3.2	Observe blood transfusions.	Y	Small group discussion, DOAP session	Skills assessment/ logbook	6	97
SU3.3	Counsel patients and family/friends for blood transfusion and blood donation.	Y	DOAP session	Skills assessment	6	97
<b>Topic: Burns</b>						
SU4.1	Elicit document and present history in a case of burns and perform physical examination. Describe pathophysiology of burns.	Y	Lecture, small group discussion	Written/viva voce	8	122
SU4.2	Describe clinical features, diagnose type and extent of burns and plan appropriate treatment.	Y	Lecture, small group discussion	Written/viva voce	8	122
SU4.3	Discuss the medicolegal aspects in burn injuries.	Y	Lecture, small group discussion	Written/viva voce	8	133
SU4.4	Communicate and counsel patients and families on the outcome and rehabilitation demonstrating empathy and care.	Y	Small group discussion, role play, skills assessment	Viva voce	8	122
<b>Topic: Wound Healing and Wound Care</b>						
SU5.1	Describe normal wound healing and factors affecting healing.	Y	Lecture, small group discussion	Written/viva voce	2	19
SU5.2	Elicit, document and present a history in a patient presenting with wounds.	Y	Lecture, small group discussion	Written/viva voce	2	15
SU5.3	Differentiate the various types of wounds, plan and observe management of wounds.	Y	Lecture, small group discussion	Written/viva voce	2, 22	15, 358

Number	COMPETENCY <b>The student should be able to</b>	Core (Y/N)	Suggested teaching learning method	Suggested assessment method	Chapter No.	Page No.
SU5.4	Discuss medicolegal aspects of wounds.	Y	Lecture, small group discussion	Written/viva voce	2, 3	15, 46
<b>Topic: Surgical Infections</b>						
SU6.1	Define and describe the aetiology and pathogenesis of surgical infections.	Y	Lecture, small group discussion	Written/viva voce	4, 9, 10, 12	47, 134, 151, 176
SU6.2	Enumerate prophylactic and therapeutic antibiotics. Plan appropriate management.	Y	Lecture, small group discussion	Written/viva voce	1, 4	13, 48
<b>Topic: Surgical Audit and Research</b>						
SU7.1	Describe the planning and conduct of surgical audit.	Y	Lecture, small group discussion	Written/viva voce	55	1217
SU7.2	Describe the principles and steps of clinical research in general surgery.	Y	Lecture, small group discussion	Written/viva voce	1	10
<b>Topic: Pre-, Intra- and Postoperative Management</b>						
SU10.3	Observe common surgical procedures and assist in minor surgical procedures; observe emergency life-saving surgical procedures.	Y	DOAP sessions	Logbook	55	1217
SU10.4	Perform basic surgical skills such as first aid including suturing and minor surgical procedures in simulated environment.	Y	DOAP session	Skill assessment	55	1217
<b>Topic: Anaesthesia and Pain Management</b>						
SU11.1	Describe principles of preoperative assessment.	Y	Lecture, small group discussion	Written/viva voce	53	1205
SU11.2	Enumerate the principles of general, regional, and local anaesthesia.	Y	Lecture, small group discussion	Written/viva voce	53	1205
SU11.5	Describe principles of providing postoperative pain relief and management of chronic pain.	Y	Lecture, small group discussion	Written/viva voce	24	379
SU11.6	Describe principles of safe general surgery.	Y	Lecture, small group discussion	Written/viva voce	1	12
<b>Topic: Nutrition and Fluid Therapy</b>						
SU12.1	Enumerate the causes and consequences of malnutrition in the surgical patient.	Y	Lecture, small group discussion, bedside clinic	Written/viva voce	7	113
SU12.2	Describe and discuss the methods of estimation and replacement of the fluid and electrolyte requirements in the surgical patient.	Y	Lecture, small group discussion, bedside clinic	Written/viva voce	7	103
SU12.3	Discuss the nutritional requirements of surgical patients, the methods of providing nutritional support and their complications.	Y	Lecture, small group discussion, bedside clinic	Written/viva voce	7	113
<b>Topic: Transplantation</b>						
SU13.1	Describe the immunological basis of organ transplantation.	Y	Lecture, small group discussion	Written/viva voce	23	370
SU13.2	Discuss the principles of immunosuppressive therapy. Enumerate indications, describe surgical principles, management of organ transplantation.	Y	Lecture, small group discussion	Written/viva voce	23	370
SU13.3	Discuss the legal and ethical issues concerning organ donation.	Y	Lecture, small group discussion	Written/viva voce	23	370
SU13.4	Counsel patients and relatives on organ donation in a simulated environment.	Y	DOAP session	Skill assessment	23	370
<b>Topic: Basic Surgical Skills</b>						
SU14.1	Describe aseptic techniques, sterilization and disinfection.	Y	Lecture, small group discussion	Written/viva voce	55	1217
SU14.2	Describe surgical approaches, incisions and the use of appropriate instruments in surgery in general.	Y	Lecture, small group discussion	Written/viva voce	55	1217

Number	COMPETENCY <b>The student should be able to</b>	Core (Y/N)	Suggested teaching learning method	Suggested assessment method	Chapter No.	Page No.
SU14.3	Describe the materials and methods used for surgical wound closure and anastomosis (sutures, knots and needles).	Y	Lecture, small group discussion	Written/viva voce	55	1217
SU14.4	Demonstrate the techniques of asepsis and suturing in a simulated environment	Y	DOAP session	Skill assessment/ logbook	55	1217
<b>Topic: Biohazard Disposal</b>						
SU15.1	Describe classification of hospital waste and appropriate methods of disposal.	Y	Lecture, small group discussion	Written/viva voce	1	10
<b>Topic: Minimally Invasive General Surgery</b>						
SU16.1	Minimally invasive general surgery: Describe indications, advantages and disadvantages of minimally invasive general surgery.	Y	Lecture, demonstration, bedside clinic, discussion	Theory/practical/ orals/written/ viva voce	55	1217
<b>Topic: Trauma</b>						
SU17.1	Describe the principles of first aid.	Y	Lecture, small group discussion	Written/viva voce	3	31
SU17.2	Demonstrate the steps in basic life support. Transport of injured patient in a simulated environment.	Y	DOAP session	Skill assessment	3	31
SU17.3	Describe the principles in management of mass casualties.	Y	Lecture, small group discussion	Written/viva voce	3	31
SU17.4	Describe pathophysiology, mechanism of head injuries.	Y	Lecture, small group discussion	Written/viva voce	50	1150
SU17.5	Describe clinical features for neurological assessment and GCS in head injuries.	Y	Lecture, small group discussion	Written/viva voce	50	1150
SU17.6	Chose appropriate investigations and discuss the principles of management of head injuries.	Y	Lecture, small group discussion	Written/viva voce	50	1150
SU17.7	Describe the clinical features of soft tissue injuries. Chose appropriate investigations and discuss the principles of management.	Y	Lecture, small group discussion	Written/viva voce	3	35
SU17.8	Describe the pathophysiology of chest injuries.	Y	Lecture, small group discussion	Written/viva voce	51	1171
SU17.9	Describe the clinical features and principles of management of chest injuries.	Y	Lecture, small group discussion	Written/viva voce	51	1171
<b>Topic: Skin and Subcutaneous Tissue</b>						
SU18.1	Describe the pathogenesis, clinical features and management of various cutaneous and subcutaneous infections.	Y	Lecture, small group Discussion	Written/viva voce	4	48
SU18.2	Classify skin tumors. Differentiate different skin tumors and discuss their management.	Y	Lecture, small group discussion	Written/viva voce/skill assessment	14, 19	237, 314
SU18.3	Describe and demonstrate the clinical examination of surgical patient including swelling and order relevant investigation for diagnosis. Describe and discuss appropriate treatment plan.	Y	Bedside clinic, small group discussion, DOAP session	Skill assessment	11, 14, 20	156, 237, 336
<b>Topic: Developmental Anomalies of Face, Mouth and Jaws</b>						
SU19.1	Describe the aetiology and classification of cleft lip and palate.	Y	Lecture, small group discussion	Written/viva voce	25	383
SU19.2	Describe the principles of reconstruction of cleft lip and palate.	Y	Lecture, small group discussion	Written/viva voce	25	383
<b>Topic: Oropharyngeal Cancer</b>						
SU20.1	Describe aetiopathogenesis of oral cancer symptoms and signs of oropharyngeal cancer.	Y	Lecture, small group discussion	Written/viva voce	26	401
SU20.2	Enumerate the appropriate investigations and discuss the principles of treatment.	Y	Lecture, small group discussion	Written/viva voce	26	401

Number	COMPETENCY <b>The student should be able to</b>	Core (Y/N)	Suggested teaching learning method	Suggested assessment method	Chapter No.	Page No.
<b>Topic: Disorders of Salivary Glands</b>						
SU21.1	Describe surgical anatomy of the salivary glands, pathology, and clinical presentation of disorders of salivary glands.	Y	Lecture, small group discussion	Written/viva voce	28	469
SU21.2	Enumerate the appropriate investigations and describe the principles of treatment of disorders of salivary glands.	Y	Lecture, small group discussion	Written/viva voce	28	469
<b>Topic: Endocrine General Surgery: Thyroid and Parathyroid</b>						
SU22.1	Describe the applied anatomy and physiology of thyroid.	Y	Lecture, small group discussion	Written/viva voce	29	492
SU22.2	Describe the aetiopathogenesis of thyroidal swellings.	Y	Lecture, small group discussion	Written/viva voce	29	492
SU22.3	Demonstrate and document the correct clinical examination of thyroid swellings and discuss the differential diagnosis and their management.	Y	Bedside clinic	Skill assessment	29	492
SU22.4	Describe the clinical features, classification and principles of management of thyroid cancer.	Y	Lecture, small group discussion	Written/viva voce	29	492
SU22.5	Describe the applied anatomy of parathyroid.	Y	Lecture, small group discussion	Written/viva voce	30	540
SU22.6	Describe and discuss the clinical features of hypo- and hyperparathyroidism and the principles of their management.	Y	Lecture, small group discussion	Written/viva voce	30	540
<b>Topic: Adrenal Glands</b>						
SU23.1	Describe the applied anatomy of adrenal glands.	Y	Lecture, small group discussion	Written/viva voce	30	540
SU23.2	Describe the aetiology, clinical features, principles and management of disorders of adrenal gland.	Y	Lecture, small group discussion	Written/viva voce	30	540
SU23.3	Describe the clinical features, principles of investigation and management of adrenal tumors.	Y	Lecture, small group discussion, demonstration	Written/viva voce	30	540
<b>Topic: Pancreas</b>						
SU24.1	Describe the clinical features, principles of investigation, prognosis and management of pancreatitis.	Y	Lecture, small group discussion	Written/viva voce	37	735
SU24.2	Describe the clinical features, principles of investigation, prognosis and management of pancreatic endocrine tumours.	Y	Lecture, small group discussion, demonstration	Written/viva voce	37	735
SU24.3	Describe the principles of investigation and management of pancreatic disorders including pancreatitis and endocrine tumors.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	37	735
<b>Topic: Breast</b>						
SU25.1	Describe applied anatomy and appropriate investigations for breast disease.	Y	Lecture, small group discussion	Written/viva voce/skill assessment	31	556
SU25.2	Describe the aetiopathogenesis, clinical features and principles of management of benign breast disease including infections of the breast.	Y	Lecture, small group discussion	Written/viva voce/skill assessment	31	556
SU25.3	Describe the aetiopathogenesis, clinical features, investigations and principles of treatment of benign and malignant tumours of breast.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	31	556
SU25.4	Counsel the patient and obtain informed consent for treatment of malignant conditions of the breast.	Y	DOAP session	Skill assessment	31	556
SU25.5	Demonstrate the correct technique to palpate the breast for breast swelling in a mannequin or equivalent.	Y	DOAP session	Skill assessment	31	556

Number	COMPETENCY The student should be able to	Core (Y/N)	Suggested teaching learning method	Suggested assessment method	Chapter No.	Page No.
<b>Topic: Cardiothoracic General Surgery: Chest—Heart and Lungs</b>						
SU26.1	Outline the role of surgery in the management of coronary heart disease, valvular heart diseases and congenital heart diseases.	Y	Lecture, small group discussion	Written/viva voce	51	1171
SU26.3	Describe the clinical features of mediastinal diseases and the principles of management.	Y	Lecture, small group discussion	Written/viva voce	51	1171
SU26.4	Describe the aetiology, pathogenesis, clinical features of tumors of lung and the principles of management.	Y	Lecture, small group discussion	Written/viva voce	51	1171
<b>Topic: Vascular Diseases</b>						
SU27.1	Describe the aetiopathogenesis, clinical features, investigations and principles of treatment of occlusive arterial disease.	Y	Lecture, small group discussion	Written/viva voce/skill assessment	13	193
SU27.2	Demonstrate the correct examination of the vascular system and enumerate and describe the investigation of vascular disease.	Y	DOAP session	Skill assessment	13	193
SU27.3	Describe clinical features, investigations and principles of management of vasospastic disorders.	Y	Lecture, small group discussion	Written/viva voce	13	193
SU27.4	Describe the types of gangrene and principles of amputation.	Y	Lecture, small group discussion	Written/viva voce/skill assessment	21	348
SU27.5	Describe the applied anatomy of venous system of lower limb.	Y	Lecture, small group discussion	Written/viva voce	15	246
SU27.6	Describe pathophysiology, clinical features, Investigations and principles of management of DVT and varicose veins.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	15	246
SU27.7	Describe pathophysiology, clinical features, investigations and principles of management of lymph oedema, lymphangitis and lymphomas.	Y	Lecture, small group discussion	Written/viva voce/skill assessment	16	275
SU27.8	Demonstrate the correct examination of the lymphatic system.	Y	DOAP session, bedside clinic	Skill assessment	16	275
<b>Topic: Abdomen</b>						
SU28.1	Describe pathophysiology, clinical features, investigations and principles of management of hernias.	Y	Lecture, small group discussion	Written/viva voce/skill assessment	41	803
SU28.2	Demonstrate the correct technique to examine the patient with hernia and identify different types of hernias.	Y	DOAP session, bedside clinic	Skill assessment	41	803
SU28.3	Describe causes, clinical features, complications and principles of management of peritonitis.	Y	Lecture, small group discussion, bedside clinic	Written/viva voce	32, 33	613, 630
SU28.4	Describe pathophysiology, clinical features, investigations and principles of management of intra-abdominal abscess, mesenteric cyst, and retroperitoneal tumors.	Y	Lecture, small group discussion, demonstration	Written/viva voce	32, 38	613, 773
SU28.5	Describe the applied anatomy and physiology of oesophagus.	Y	Lecture, small group discussion, demonstration	Written/viva voce	42	841
SU28.6	Describe the clinical features, investigations and principles of management of benign and malignant disorders of oesophagus.	Y	Lecture, small group discussion, demonstration	Written/viva voce	42	841
SU28.7	Describe the applied anatomy and physiology of stomach.	Y	Lecture, small group discussion	Written/viva voce	43	870
SU28.8	Describe and discuss the aetiology, the clinical features, investigations and principles of management of congenital hypertrophic pyloric stenosis, peptic ulcer disease, carcinoma stomach.	Y	Lecture, small group discussion	Written/viva voce/skill assessment	43	870

Number	COMPETENCY <b>The student should be able to</b>	Core (Y/N)	Suggested teaching learning method	Suggested assessment method	Chapter No.	Page No.
SU28.9	Demonstrate the correct technique of examination of a patient with disorders of the stomach.	Y	DOAP session, bedside clinic	Skill assessment	43	870
SU28.10	Describe the applied anatomy of liver. Describe the clinical features, investigations and principles of management of liver abscess, hydatid disease, injuries and tumors of the liver.	Y	Lecture, small group discussion, demonstration	Written/viva voce	34	642
SU28.11	Describe the applied anatomy of spleen. Describe the clinical features, investigations and principles of management of splenic injuries. Describe the post-splenectomy sepsis—prophylaxis.	Y	Lecture, small group discussion, demonstration	Written/viva voce	36	721
SU28.12	Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system.	Y	Lecture, small group discussion, demonstration	Written/viva voce	35	382
SU28.13	Describe the applied anatomy of small and large intestine.	Y	Lecture, small group discussion, demonstration	Written/viva voce	44, 45, 46	919, 944, 976
SU28.14	Describe the clinical features, investigations and principles of management of disorders of small and large intestine including neonatal obstruction and short gut syndrome.	Y	Lecture, small group discussion, demonstration	Written/viva voce	44, 45, 46	919, 944, 976
SU28.15	Describe the clinical features, investigations and principles of management of diseases of appendix including appendicitis and its complications.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	47	996
SU28.16	Describe applied anatomy including congenital anomalies of the rectum and anal canal.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	48	1011
SU28.17	Describe the clinical features, investigations and principles of management of common anorectal diseases.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	48	1011
SU28.18	Describe and demonstrate clinical examination of abdomen. Order relevant investigations. Describe and discuss appropriate treatment plan.	Y	Bedside clinic, DOAP session, small group discussion	Skill assessment	39	780
<b>Topic: Urinary System</b>						
SU29.1	Describe the causes, investigations and principles of management of hematuria.	Y	Lecture, small group discussion	Written/viva voce	49	1055
SU29.2	Describe the clinical features, investigations and principles of management of congenital anomalies of genitourinary system.	Y	Lecture, small group discussion	Written/viva voce	49	1055
SU29.4	Describe the clinical features, investigations and principles of management of hydronephrosis.	Y	Lecture, small group discussion	Written/viva voce	49	1055
SU29.5	Describe the clinical features, investigations and principles of management of renal calculi.	Y	Lecture, small group discussion	Written/viva voce	49	1055
SU29.6	Describe the clinical features, investigations and principles of management of renal tumours.	Y	Lecture, small group discussion	Written/viva voce	49	1055
SU29.7	Describe the principles of management of acute and chronic retention of urine.	Y	Lecture, small group discussion	Written/viva voce	49	1111
SU29.8	Describe the clinical features, investigations and principles of management of bladder cancer.	Y	Lecture, small group discussion	Written/viva voce	49	1089
SU29.9	Describe the clinical features, investigations and principles of management of disorders of prostate.	Y	Lecture, small group discussion	Written/viva voce/skill assessment	49	1103
SU29.11	Describe clinical features, investigations and management of urethral strictures.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	49	1111

Number	COMPETENCY <b>The student should be able to</b>	Core (Y/N)	Suggested teaching learning method	Suggested assessment method	Chapter No.	Page No.
<b>Topic: Penis, Testis and Scrotum</b>						
SU30.1	Describe the clinical features, investigations and principles of management of phimosis, paraphimosis and carcinoma penis.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	49	1119
SU30.3	Describe the applied anatomy, clinical features, investigations and principles of management of epididymo-orchitis.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	49	1138
SU30.4	Describe the applied anatomy, clinical features, investigations and principles of management of varicocele.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	49	1128
SU30.5	Describe the applied anatomy, clinical features, investigations and principles of management of hydrocele.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	49	1128
SU30.6	Describe classification, clinical features, investigations and principles of management of tumours of testis.	Y	Lecture, small group discussion, demonstration	Written/viva voce/skill assessment	49	1138

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