

Subject: General Surgery Clinical Postings

Learner - Doctor Programme (clinical clerkship

Phase II

- History taking
- General Examination
- Local Examination with demonstration of signs.
- Psychomotor Skills
- AETCOM of Phase II

Phase III/ I

- All of Phase II plus
- Psychomotor Skills
- · Differential diagnosis
- Investigations
- AETCOM of Phase III Part I

Phase III/ II

- All of Phase III Part I plus
- Psychomotor Skills
- Management
- Counselling
- AETCOM Phase III/ Part II

-There shall be end post exam at the end of 1st, 2nd and 3rd clinical posting which will be added to internal -At the end of 4th clinical posting of 4 weeks there will be only formative assessment.



Subject: General Surgery Lectures

MBBS Phase II-Total Teaching hours: 25 hours

TOPICS	COMPETENCIES	SUBTOPICS
		Lecture: 1
Introductory Lecture	×	Welcome
		History of surgery
		Introduction to surgery and allied subjects
		Teaching, Learning & Assessment -CBME
Metabolic Response	2	
to Injury		Lecture: 2
11.	SU 1.1	
		Describe basic concepts of homeostasis, enumerate the metabo
		changes in injury and their mediators.
	SU 1.2	Lecture: 3
		Describe the factors that affect the metabolic responses to inju
Shock		
	SU 2.1	Lecture: 4
		Describe Pathophysiology of shock, types of shock and principle
		resuscitation including fluid replacement and monitoring.
	PA6.3	Define and describe shock, its pathogenesis and its stages
	SU 2.2	Lecture: 5
		Describe the clinical features of shock and its appropriate treati
	Introductory Lecture Metabolic Response to Injury	Introductory Lecture Metabolic Response to Injury SU 1.1 SU 1.2 Shock SU 2.1



4.	Blood and blood components		
		SU 3.1	Lecture: 6
			Describe the indications and appropriate use of blood and blood and complications of blood transfusion.
		PA22.4	Enumerate blood components and describe their clinical u
5.	Burns	<u> </u>	
		SU 4.1	Lecture: 7
			Describe pathophysiology of burns. Describe clinical features, d type and extent of burns.
		SU 4.2, 4.3	Lecture: 8
		201	Plan appropriate treatment of burns. Discuss medicolegal aspectinjuries.
6.	Wound healing and wound care	2115	
		SU 5.1	Lecture: 9
	W	PA5.1	Describe normal wound healing and factors affecting healing. Define and describe the process of repair and regeneration including wound healing and its types
		PA4.1	Define and describe the general features of acute and chroinflammation including stimuli, vascular and cellular event
		PA4.2	Enumerate and describe the mediators of acute inflammate
		SU 5.3	Lecture: 10
			Differentiate the various types of wounds, plan and observe ma of wounds.
7.	Surgical Infections		
		SU 6.1	Lecture: 11
			Define and describe the etiology and pathogenesis of surgical ir



		SU 6.1	Lecture: 12
			Define and describe the etiology and pathogenesis of surgical in HIV-AIDS, Hepatitis, Gas Gangrene etc.
		SU 6.2	Lecture: 13
			Enumerate prophylactic and therapeutic antibiotics. Plan appromanagement.
8.	Investigations of a surgical patient		CONT
		SU 9.1	Lecture: 14
		PA8.1 PA8.2 MI7.1	Choose appropriate biochemical, microbiological, pathological, investigations and interpret the investigative data in a surgical processive the diagnostic role of cytology and its application care. Describe the basis of exfoliative cytology including the technique the basis used Describe the etio-pathogenesis and discuss the laboratory of infections of genitourinary system
9.	Nutrition and fluid therapy		
		SU 12.1	Lecture:15
			Enumerate the causes and consequences of malnutrition in the patient.
		SU 12.2	Lecture:16
			Describe and discuss the methods of estimation and replaceme fluid and electrolyte requirements in the surgical patients.
		SU 12.3	Lecture:17



		Discuss the nutritional requirements of surgical patients, the more providing nutritional support and their complications.
Transplantation		
	SU 13.1	Lecture: 18
		Describe the immunological basis of organ transplantation.
	SU 13.2	Lecture: 19
		Discuss the principles of immunosuppressive therapy. Enumera Indications, describe surgical principles, management of organ transplantation
Basic surgical skills		
	SU 14.1	Lecture: 20
	M11.4	Describe Aseptic techniques, sterilisation and disinfection. Classify and describe the different methods of sterilization disinfection. Discuss the application of the different method laboratory, in clinical and surgical practice
	MI1.5	Choose the most appropriate method of sterilization and disinfection to be used in specific situations in the laborate clinical and surgical practice
Biohazard disposal		
	SU 15.1	Lecture: 21
	MI8.7	Describe classification of hospital waste and appropriate methodisposal. Demonstrate Infection control practices and use of Person Protective Equipment (PPE)
Trauma		11000000 240.p
	SU 17.1	Lecture: 22
	30 17.1	Describe the principles of first aid.
	SU 17.2	Lecture: 23
	Basic surgical skills Biohazard disposal	SU 13.1 SU 13.2 Basic surgical skills SU 14.1 MI1.5 Biohazard disposal SU 15.1



			Basic Life Support
14.			
	Skin and		
	Subcutaneous tissue		
		SU 18.1, SU	
		18.2, 18.3	Lecture: 24
			Describe the pathogenesis, clinical features and management o
			cutaneous and subcutaneous infections. Describe clinical exami
			surgical patient including swelling and discuss investigations for
			and treatment plan.
			Classify skin tumours. Differentiate different skin tumours and o
			their management.
15.	Vascular diseases		
	T	SU27.1	Lecture: 25
		Cilla	Describe the etiopathogenesis, clinical features, investigations a principles of treatment of occlusive arterial disease.



MBBS Phase III- Part I

Total Teaching hours: 25 hours

S. NO	TOPICS	COMPETENCIES	SUBTOPICS
1.	Metabolic response to injury		
		SU1.3	Lecture: 1
			Describe basic concepts of postoperative care.
2.	Surgical Audit and Research		To.
		SU7.1.7.2	Lecture: 2
		Silve	Describe the planning and conduct of surgical audit Describe the principles and steps of clinical research in General Surgery
3.	Ethics	\(\frac{1}{2}\)	
		SU8.1, 8.2	Lecture: 3
	al al		Describe the principles of Ethics as it pertains to General Surgery demonstrate professionalism and empathy to the patient underg general surgery
		AS10.3	Describe the role of communication in patient safety
		SU9.2	Lecture: 4
			Biological basis for early detection of cancer and multidisciplinar approach in management of cancer
4.	Pre, intra and post- operative management.		
		SU10.1	Lecture: 5
			Describe the principles of perioperative management of commor
			surgical procedures and Describe the steps and obtain informed consent in a simulated environment



		IM5.13, IM15.9	Enumerate the indications for ultrasound and other imaging stud including MRCP and ERCP and describe the findings in liver disease. Choose and interpret diagnostic tests based on the clinic diagnosis including complete blood count, PT and PTT, stool examination, occult blood, liver function tests, H.pylori test.
5.	Anaesthesia and		
	pain management		
		SU11.1, 11.5	Lecture: 6
			Describe principles of Preoperative assessment. Describe principl providing post-operative pain relief and management of chronic providing prov
			Describe the principles of preoperative evaluation. Observe and
			describe the principles and steps/ techniques involved S in comm
		AS3.1, AS5.6	blocks used in Surgery(including brachial plexus blocks)
		SU11.6	Lecture: 7
			Describe Principles of safe General Surgery
		1.	Elicit, present and document an appropriate history including
		12	medication history in a patient undergoing Surgery as it pertains t
		AS3.2	preoperative anaesthetic evaluation
6.	Transplantation		
		SU13.4	Lecture: 9
			Counsel patients and relatives on organ donation in a simulated
			Environment
			Enumerate the indications for hepatic transplantation
7.	Basic Surgical Skills		
		SU14.2	Lecture: 10
		3311.2	Describe Surgical approaches, incisions and the use of appropriat
			instruments in Surgery in general.
		SU14.3	Lecture: 11
			Describe the materials and methods used for surgical wound clos
			and anastomosis (sutures, knots and needles)



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8.	Trauma		
		SU17.2	Lecture: 12
			Demonstrate the steps in Basic Life Support. Transport of injured
			patient in a simulated environment
9.	Developmental		
	anomalies of face,		
	mouth and jaws		
		SU19.1, 19.2	Lecture: 13
			Describe the etiology and classification of cleft lip and palate. Des
			the Principles of reconstruction of cleft lip and palate.
10.	Oropharyngeal		
	cancer		
		SU20.1, SU20.2	Lecture: 14
			Describe etiopathogenesis of oral cancer symptoms and signs of
		11/2	oropharyngeal cancer.
			Enumerate the appropriate investigations and discuss the Princip
		4.	treatment and reconstructive flap
	2	DE 4.1, DE 4.2,	
	· la	DE 4.3, DE 4.4	Lecture: 15
			Discuss the prevalence of oral cancer and enumerate the commo
			types of cancer that can affect tissues of the oral cavity. Discuss t
			role of etiological factors in the formation of precancerous /cance
			lesions. Identify potential pre-cancerous /cancerous lesions. Cour
			patients to risks of oral cancer with respect to tobacco, smoking, alcohol and other causative factors.
11.	Disaudous of colinam.		alconor and other causative factors.
11.	Disorders of salivary		
	glands	61124.4	Last as 46
		SU21.1	Lecture: 16
			Describe surgical anatomy of the salivary glands, pathology clinical
		AN29 0	presentation of disorders of salivary glands
		AN28.9 , AN34.1 ,	Describe & demonstrate the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duc
		MN34.1,	relations and herve supply of parotic gland with course of its duc



			<u></u>
	,		and surgical importance. Describe & demonstrate the morpholog
	!	<u> </u> '	relations and nerve supply
	<u> </u>	SU21.2	Lecture: 17
	'		Enumerate the appropriate investigations and describe the Princi
	<u>'</u>	<u> </u> '	of treatment of disorders of salivary glands
12.	Thyroid and		
	Parathyroid Glands	<u> </u> '	
	!	SU22.1, 22.2	Lecture: 18
	'	· [Describe the applied anatomy and physiology of thyroid. Describe
	'	'	etiopathogenesis of thyroidal swellings.
	'		Describe the etiopathogenesis of thyroidal swellings. Describe &
	!		demonstrate location, parts, borders, surfaces, relations
	!	AN35.2	& blood supply of thyroid gland
	'	PA32.1,	Enumerate, classify and describe the etiology, pathogenesis,
l	'		pathology and iodine dependency of thyroid swellings,
	!		Describe the pharmacology, indications, adverse reaction,
l	'		interactions of thyroxine and antithyroid drugs. Describe and disc
		IM12.13,	the indications of thionamide therapy, radio
 	1	IM12.15	iodine therapy and Surgery in the management of thyrotoxicosis
 		SU22.4	Lecture: 19
	'	'	Describe the clinical features, classification and principles of
<u> </u>	<u>'</u>	<u> </u>	management of thyroid cancer
	<u> </u>	SU22.5	Lecture: 20
	'	'	Describe the applied anatomy of parathyroid.
	!		Describe and discuss the clinical features of hypo - and
	'	'	hyperparathyroidism and the principles of their management
	!	10.422.2	Describe the aetiology, clinical manifestations, diagnosis and clin
12	<u>'</u>	IM22.2	approach to primary hyperparathyroidism
13.	Adrenal Glands	<u> </u>	
	!	SU23.1, 23.2,	
<u></u>		23.3	Lecture: 21



			Describe the applied anatomy of adrenal glands. Describe the
			etiology, clinical features and principles of management of disorc
			of adrenal gland. Describe the clinical features, principles of
			investigation and management of Adrenal tumours
14.	Breast		
		SU25.1	Lecture: 22
			Describe applied anatomy and appropriate investigations for bre disease
			Classify and describe the types, etiology, pathogenesis, pathology
		PA31.1	and hormonal dependency of benign breast disease
			.01
		SU25.2	Lecture: 23
		00	Describe the etiopathogenesis, clinical features and principles of
		X	management of benign breast disease including infections of the
		5	breast.
			Classify and describe the epidemiology, pathogenesis,
		4.	classification, morphology, prognostic factors, hormonal
		PA31.2	dependency, staging and spread of carcinoma of the breast
		SU 25.3	Lecture: 24
			Describe the etiopathogenesis, clinical features, Investigations an principles of treatment of benign and malignant tumours of breas
15.	Vascular diseases		
		SU 27.1	Lecture: 25
			Describe the etiopathogenesis, clinical features, investigations an
			principles of treatment of occlusive arterial disease.
			Explain the concept of "Peripheral heart. Explain anatomical basis
			varicose veins and deep vein thrombosis.
			Identify & demonstrate palpation of vessels (femoral, popliteal,
		AN19.3,	dorsalis pedis, post tibial), Mid inguinal point, Surface projection
		AN20.5	femoral nerve, Saphenous opening, Sciatic, tibial, common peron
		AN20.9	& deep peroneal nerve, great and small saphenous veins



MBBS Phase III- Part II

Total Teaching hours: 70 hours

S. NO	TOPICS	COMPETENCIES	SUBTOPICS
1.	Anaesthesia and Pain Management		
		SU 11.2	Lecture: 1
		1. P. W.	Enumerate the principles of general, regional and local anaesthesia.
		AS5.6	Observe and describe the principles and steps/ technique involved
		(4)	in common blocks used in Surgery (including brachial ple blocks)
	. 4	SU 11.4	Lecture: 2
	4.		Enumerate the indications and principles of day care Ger Surgery.
		SU 16.1	Lecture: 3
			Minimal Invasive General Surgery: Describe indications, advantages and disadvantages of Minimally Invasive Ge Surgery.
2.	Trauma		
		SU 17.4, 17.5,	
		17.6	Lecture: 4
			Describe pathophysiology, mechanism of head injuries. Describe clinical features for neurological assessment ar GCS in head injuries. Choose appropriate investigations discuss the principles of management of head injuries.



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		SU 17.7	Lecture: 5
			Describe the clinical features of soft tissue injuries. Choo appropriate investigations and discuss the principles of management.
		SU 17.8, 17.9	Lecture: 6
		,	Describe pathophysiology of chest injuries. Describe the clinical features and principles of management of chest injuries.
		SU17.3	Lecture: 7
		1	Describe pathophysiology of Abdominal injuries. Describ clinical features and principles of management of Abdominjuries.
3.	Pancreas		
		SU 24.1	Lecture: 8
		AN55.2	Describe the clinical features, principles of investigation, prognosis and management of pancreatitis. Demonstrate the surface projections of: stomach, liver, further of gall bladder, spleen, duodenum, pancreas, ileocecal junction, kidneys & root of mesentery
	N	SU 24.2	Lecture: 9
			Describe the clinical features, principles of investigation, prognosis and management of pancreatic endocrine tum
		SU 24.3	Lecture: 10
			Describe the principles of investigation and management pancreatic disorders including pancreatitis and endocrine tumours.
4.	Cardio-thoracic General Surgery- Chest- Heart and Lungs		
		SU 26.1, 26.2	Lecture: 11



		Outline the role of surgery in the management of coronar heart disease, valvular heart diseases and congenital he diseases, diseases of Thorax and Diaphragm
	011.06.2	Lecture: 12
	50 20.3	Describe the clinical features of mediastinal diseases and principles of management.
	SU 26.4	Lecture: 13
		Describe the etiology, pathogenesis, clinical features of t of the lung and the principles of management.
Vascular Diseases	N.	
	SU 27.1	Lecture: 14
	Sil	Describe the etiopathogenesis, clinical features, investigation and principles of treatment of occlusive arterial disease.
	SU 27.2, 27.3, 27.4	Lecture: 15
		Demonstrate the correct examination of the vascular sys and enumerate and describe the investigation of vascula disease. Describe clinical features, investigations and principles of management of vasospastic disorders. Desc the types of gangrene and principles of amputation.
	SU 27.5, 27.6	Lecture: 16
		Describe the applied anatomy of the venous system of lo limb. Explain anatomical basis of varicose veins and deep vein thrombosis
+		Lecture: 17
		Describe pathophysiology, clinical features, Investigation principles of management of lymph edema, lymphangitis lymphomas. Explain the concept of lymphoedema and specific process.
1	ļ	of tumors via lymphatics and venous system
	Vascular Diseases	Vascular Diseases SU 27.1 SU 27.2, 27.3, 27.4



	SU 28.1	Lecture: 18
	AN44.4 AN44.5	Describe pathophysiology, clinical features, Investigation principles of management of Hernias Describe & demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle. Explain the anatomical basis of inguinal hernia.
	SU 28.1	Lecture: 19
		Describe pathophysiology, clinical features, Investigation principles of management of Hernias
	SU 28.1	Lecture: 20
	AN44.6	Describe pathophysiology, clinical features, Investigation principles of management of Hernias Describe & demonstrate attachments of muscles of anterior abdominal wall
	SU 28.1	Lecture:21
	AN44.7	Describe pathophysiology, clinical features, Investigation principles of management of Hernias Enumerate common Abdominal incisions
	SU 28.3	Lecture: 22
N	AN47.2 AN47.3 AN47.4	Describe causes, clinical features, complications and prin of management of peritonitis and omental pathologies Name & identify various peritoneal folds & pouches with its explanation. Explain anatomical basis of Ascites & Peritonitis Explain anatomical basis of Subphrenic abscess
	SU 28.4	Lecture: 23
	AN47.4	Describe pathophysiology, clinical features, investigation K principles of management of Intra-abdominal abscess, mesenteric cyst, and retroperitoneal tumors Explain anatomical basis of Subphrenic abscess
	SU 28.5	Lecture: 24
		Describe the applied Anatomy and physiology of esopha
	AN23.1	Describe & demonstrate the external appearance, relations, blood supply, nerve supply, lymphatic drainage and applied anatomy of



		T
	211000	oesophagus
	SU 28.6	Lecture: 25
		Describe the clinical features, investigations and principle
		management of benign and malignant disorders of esoph
	SU 28.7	Lecture: 26
	AN47.6	
	AN47.1 SU 28.8	Describe the applied anatomy and physiology of stomack Explain the anatomical basis of Splenic notch, accessory spleens, Kehr's sign, different types of vagotomy, liver bit (site of needle puncture), referred pain in cholecystitis, Obstructive jaundice, referred pain around umbilicus, rad pain of kidney to groin &Lymphatic spread in carcinoma stomach Describe & identify boundaries and recesses of Lesser & Greater sac Lecture: 27
Š	My	Describe and discuss the aetiology, the clinical features, investigations and principles of management of congenital hypertrophic pyloric stenosis, Peptic ulcer disease, Carci stomach
	SU 28.10	Lecture: 28
	AN47.4 AN47.6	Describe the applied anatomy of liver. Describe the clinic features, Investigations and principles of management of abscess, hydatid disease, injuries and tumors of the liver Explain anatomical basis of Subphrenic abscess Liver biopsy (site of needle puncture), referred pain in cholecystitis, Obstructive jaundice
	SU 28.10	Lecture: 29
		Describe the applied anatomy of liver. Describe the clinic features, Investigations and principles of management of abscess, hydatid disease, injuries and tumours of the liver



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	SU 28.10	Lecture: 30
		Describe the applied anatomy of liver. Describe the clinic
		features, Investigations and principles of management of
		abscess,
		hydatid disease, injuries and tumors of the liver
	AN47.3	Explain anatomical basis of Ascites & Peritonitis
	SU 28.11	Lecture: 31
		Describe the applied anatomy of spleen. Describe the cli
		features, investigations and principles of management of
		splenic
		injuries. Describe the post-splenectomy sepsis – prophyl
	1	Explain the anatomical basis of Splenic notch, accessory
	ANI47.C	spleens, Kehr's sign
	AN47.6	1 (
	SU 28.12	Lecture: 32
		Describe the applied exetens, of hilliams exetens. Describe
		Describe the applied anatomy of biliary system. Describe clinical features, investigations and principles of manage
	M147 7	of diseases of biliary system
	V.1141.1	Mention the clinical importance of Calot's triangle
21		Mention the diffical importance of Galot's thangle
	SU 28.12	Lecture: 33
		Describe the applied anatomy of biliary system. Describe
		clinical features, investigations and principles of manage
		of diseases of biliary system
	SU 28.12	Lecture: 34
		Describe the applied anatomy of biliary system. Describe
		clinical features, investigations and principles of manage
		of diseases of biliary system
	AN47.10	
		Enumerate the sites of portosystemic anastomosis
	AN47.11	
		Explain the anatomic basis of hematemesis & caput me
	1	in portal hypertension



	SU 28.13, 28.14	Lecture: 35
	AN52.6	Describe the applied anatomy of small and large intestine Describe the development and congenital anomalies of foregut, midgut & hindgut
	SU 28.13, 28.14	Lecture: 36
		Describe the clinical features, investigations and principle management of disorders of small and large intestine inconatal obstruction and Short gut syndrome
	SU 28.13, 28.14	Lecture: 37
	Pall	Describe the clinical features, investigations and principle management of disorders of small and large intestine inconatal obstruction and Short gut syndrome
	SU 28.13, 28.14	Lecture: 38
	NIL	Describe the clinical features, investigations and principle management of disorders of small and large intestine increase neonatal obstruction and Short gut syndrome
N	SU 28.13, 28.14	Lecture: 39
		Describe the clinical features, investigations and principl management of disorders of small and large intestine inconatal obstruction and Short gut syndrome
	SU 28.13, 28.14	Lecture: 40
		Describe the clinical features, investigations and principl management of disorders of small and large intestine in neonatal obstruction and Short gut syndrome
	SU 28.13, 28.14	Lecture: 41
		Describe the clinical features, investigations and principle management of disorders of small and large intestine in neonatal obstruction and Short gut syndrome
	SU 28.15	Lecture: 42



			Describe the clinical features, investigations and principle management of diseases of Appendix including appendic and its complications.
		SU 28.16	Lecture: 43
		AN49.4	Describe applied anatomy including congenital anomalie the rectum and anal canal Describe & demonstrate boundaries, content & applied anatomy of Ischiorectal fossa
		SU 28.16	Lecture: 44
		. 0	Describe applied anatomy including congenital anomalie the rectum and anal canal
		AN48.8	Mention the structures palpable during vaginal & rectal examination
		SU 28.17	Lecture: 45
		Silve	Describe the clinical features, investigations and principle management of common anorectal diseases
		SU 28.17	Lecture: 46
	4		Describe the clinical features, investigations and principle management of common anorectal diseases
7.	Urinary System		
		SU 29.1	Lecture: 47
			Describe the causes, investigations and principles of management of Hematuria
		SU 29.2	Lecture: 48
		41150.7	Describe the clinical features, investigations and principle management of congenital anomalies of genitourinary sy
		AN52.7	Describe the development of urinary system
		SU 29.3	Lecture: 49
		MI7.1	Describe the Clinical features, Investigations and principl management of urinary tract infections Describe the etio-pathogenesis and discuss the laborator diagnosis of infections of genitourinary system
		SU 29.4	Lecture: 50
		SU 29.4	Lecture: 50



			Describe the clinical features, investigations and principle management of hydronephrosis
		SU 29.5	Lecture: 51
			Describe the clinical features, investigations and principle management of renal calculi
		SU 29.5	Lecture: 52
			Describe the clinical features, investigations and principle management of renal calculi
		SU 29.6	Lecture: 53
			Describe the clinical features, investigations and principle management of renal tumours
		SU 29.7	Lecture: 54
		53/1	Describe the principles of management of acute and chronetention of urine
		SU 29.8	Lecture: 55
	!	(Fill)	Describe the clinical features, investigations and principle management of bladder cancer
		SU 29.9	Lecture: 56
		AN48.7	Describe the clinical features, investigations and principle management of disorders of prostate Mention the lobes involved in benign prostatic hypertrophy & prostatic cancer
	,	SU 29.10	Lecture: 57
			Describe clinical features, investigations and manageme urethral strictures and urethral injuries
8.	Penis, Testis and scrotum		
		SU 30.1	Lecture: 58
	1		Describe the clinical features, investigations and principle management of phimosis, paraphimosis.
		AN46.5	Explain the anatomical basis of Phimosis & Circumcision
		SU 30.1	Lecture: 59



		Describe the clinical features, investigations and principle management of carcinoma penis.
	SU 30.2, 30.3	Lecture: 60
	AN46.1	Describe the applied anatomy clinical features, investigation and principles of management of undescended testis. Describe anatomy clinical features, investigations and principles of management of epidydimo-orchitis Describe and demonstrate coverings, internal structure, side determination, blood supply, nerve supply, lymphatic dra accept of testis with its applied anatomy
	SU 30.4, 30.5	Lecture: 61
	AN46.4	Describe the applied anatomy clinical features, investigate and principles of management of varicocele and hydrocon Explain the anatomical basis of varicocele
	SU 30.6	Lecture: 62
		Describe classification, clinical features, investigations are principles of management of benign tumours of testis.
	SU 30.6	Lecture: 63
		Describe classification, clinical features, investigations are principles of management of malignant tumours of testis.
9.		Lecture: 64
		Revision Lecture 1
10.		Lecture: 65
		Revision Lecture 2
11.		Lecture: 66
		Revision Lecture 3
12.		Lecture: 67
		Revision Lecture 4
13.		Lecture: 68
		Revision Lecture5





14.		Lecture: 69
		Revision Lecture 6
15.		Lecture: 70
		Revision Lecture 7

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Subject: General Surgery Self-Directed Learning

MBBS phase III/I

Total Teaching hours: 5 hours

*These are suggested topics which can be modified at institutional level

Sr.			
No.	TOPICS	COMPETENCIES	SUBTOPICS
1.		001	
	Ethics		
		SU8.1	SDL:1
		7.	Describe the principles of Ethics as it pertains to General Surger
	n.		Demonstrate Professionalism and empathy to the patient.
2.	W.		
	Transplantation		
			SDL:2
		SU13.3	
			Discuss the legal and ethical issues concerning organ dona
			Counsel patients and relatives on organ donation in a simu



MBBS phase III/II

Total Teaching hours : 15 hours

*These are suggested topics which can be modified at institutional level

Sr. No	TOPICS	COMPETENCIES	SUBTOPICS
1.	Thyroid		
		SU 22.2,	~
		SU 22.3, SU22.4	SDL:1
		auxerio	Describe the etiopathogenesis of thyroidal swelling
		(0)	Demonstrate and document the correct clinical exa
			and discus the differential diagnosis and their man
		00.	Describe the clinical features, classification and pri
			thyroid cancer
2.	Breast	(2)	
		SU 25.2,	SDL:2
	M.	SU 25.3	
			Describe the etiopathogenesis, clinical features and
			benign breast disease including infections of the br
			Describe the etiopathogenesis, clinical features, In
			treatment of benign and malignant tumours of bre
3.	Oral malignancy		
		SU 20.1,	SDL:3
		SU 20.2	
			Describe etiopathogenesis of oral cancer symptom
			cancer.
			Enumerate the appropriate investigations and disc
4.	Communication skills -		
	Role play		
		AETCOM	SDL:4



Subject: General Surgery Small Group Discussion

MBBS phase III/I -

Small group teachings/ Tutorials/ Integrated teaching/ Practical's: 35 hours

- Competencies written in red (horizontal) and green (vertical) are of alignment a
- 25 % of allotted time of the third professional shall be utilised for integrated lead clinical subjects and shall be assessed during the clinical subject's examination
- This allotted time will be utilised as integrated teaching by para- clinical subject Applied Anatomy, Clinical Pathology, Clinical Pharmacology, Clinical Microbiological Instruments, Operative Surgery, Communication skills etc.).

S. NO	TOPICS	COMPETENCIES	SUBTOPICS	
1.	Metabolic response			
	to injury			
		SU1.3	SGD: 1	
			Describe basic concepts of perioperative care- preoperative	
		AS3.1, AS9.3, AS9.4	Describe the principles of preoperative evaluation Describe the principles of fluid therapy in the preoperative period	



			Enumerate blood products and describe the use of blood	
			products in the preoperative period	
-		SU1.3	SGD: 2	
		501.3	000.1	
]		Describe basic concepts of perioperative care	
			intraoperative	
ļ				
<u> </u>	<u> </u>	SU1.3,	SGD: 3	
			Describe basic concepts of perioperative care-	
ı			postoperative	
			Describe the common complications encountered by patients in the	
		1	recovery room, their recognition and principles of	
		AS6.3	management	
2.	Shock	20		
		SU2.1,	SGD: 4	
			Describe Pathophysiology of shock, types of shock &	P
			principles of resuscitation including fluid replacement	
		12	and monitoring.	
		5	Define and describe shock, its pathogenesis and its	
	1/2	PA6.3	stages	
		SU2.2,	SGD: 5	
			Describe the clinical features of shock and its	General
			appropriate treatment	
			Describe and discuss the physiologic effects of acute blood and	
		IM15.3	volume loss	
3.	Blood and blood		Voiding 1999	
	components			
	•	SU3.2	SGD: 6	
			Observe blood transfusions	
			Enumerate blood components and describe their clinical	
		PA22.4	uses	
4.	Burns			



		SU4.1, SU4.2	SGD: 7	
			Elicit document and present history in a case of Burns and perform physical examination. Describe Pathophysiology of Burns. Describe Clinical features, Diagnose type and extent of burns and plan appropriate treatment.	
		SU4.3	SGD: 8	
		FM2.25	Discuss the Medicolegal aspects in burn injuries. Describe types of injuries, clinical features, pathophysiology, postmortem findings and medico-legal aspects in cases of burns, scalds, lightening, electrocution and radiations	
		00		
		sil		
5.	Wound healing and			
	wound care			
		SU5.2, SU5.3	SGD: 9	
	"		Elicit, document and present a history in a patient presenting with wounds. Differentiate the various types of wounds, plan and observe management of wounds.	
		SU5.4	SGD:10	
			Discuss medico legal aspects of wounds	
		FM3.3 , FM3.4	Mechanical injuries and wounds: Define, describe and classify different types of mechanical injuries, abrasion, bruise, laceration, stab wound, incised wound, chop wound, defense wound, self-inflicted/fabricated wounds and their	



		, FM3.6	medico-legal aspects. Mechanical injuries and wounds: define injury, assault & hurt. Describe IPC pertaining to injuries Mechanical injuries and wounds:Describe healing of injury and fracture of bones with its medico-legal importance	
6.	Surgical infections			
<u> </u>		SU6.1	SGD:11	
			Define and describe the aetiology and pathogenesis of surgical	
		MI7.1	Infections Describe the etio-pathogenesis and discuss the laboratory diagnosis of infections of genitourinary system	
		SU6.2	SGD:12	
		5	Enumerate Prophylactic and therapeutic antibiotics	
			Plan appropriate management	
7.	Surgical Audit and Research	Ny.		
	7/	SU7.1, SU7.2	SGD:13	
			Describe the Planning and conduct of Surgical audit Describe the principles and steps of clinical research in General Surgery	(
8.	Ethics			
		SU8.1 ,SU8.2	SGD:14	
			Describe the principles of Ethics as it pertains to General Surgery Demonstrate Professionalism and empathy to the patient undergoing general surgery	Fore



	 _	-	,	<u> </u>
9.	Investigation of surgical patient			
		SU9.1	SGD:15	
			Choose appropriate biochemical, microbiological, pathological, imaging investigations and interpret the investigative data in a surgical patient	Biochem
- 		ſ'	· · ·	Ī'
		SU9.2	SGD 16	
	,		Biological basis for early detection of cancer and	
		sil-	multidisciplinary approach in management of cancer	
10.	Pre, intra and post- operative management.	MALL		
<u> </u>	N.	SU10.1	SGD:17	
			Describe the principles of perioperative management of common	
	1	1	surgical procedures	
11.	Nutrition and fluid therapy			
		SU12.1	SGD:18	Pł
			Enumerate the causes and consequences of	
<u></u>	<u> </u>	<u> </u>	malnutrition in the surgical patient	
1			Describe and discuss the methods of estimation and	
		SU12.2	replacement Of the fluid and electrolyte	
			requirements in the surgical patient	



		T	
1		Discuss the nutritional requirements of surgical	
		patients, the methods of providing nutritional	
	SU12.3	support and their complications	
12. Transplant	ation		
	SU13.3	SGD: 19	
		Discuss the legal and ethical issues concerning organ	
		donation	
13. Basic Surgi	cal Skills		
	SU14.2	SGD: 20	
		Describe Surgical approaches, incisions and the use	
		of appropriate	
		instruments in Surgery in general.	l
	SU14.3	SGD: 21	
		Describe the materials and methods used for surgical	
	(5	wound	
		closure and anastomosis (sutures, knots and needles)	
14 Biohazard [Disposal SU15.1	SGD 22	Microbi
	13/2	Describe c lassification of hospital waste and appropriate methods of disposal	
	MI8.7	Demonstrate Infection control practices and use of	
		Personal	
15. Trauma		Protective Equipments (PPE)	
15. Trauma	CU47.2	1 222 22	
	SU17.3	SGD:23	
		Describe the Principles in management of mass	
16. Skin and		casualties	
16. Skin and Subcutaneo		SGD 24	l
Tissue	ius	!	l
lissuc	SU18.1	Describe the pathogenesis, clinical features and	<u> </u>
	0010.1	management of	
	SU18.2	various cutaneous and subcutaneous infections. Classify skin tumors	



		SU18.3	Differentiate different skin tumors and discuss their management. Describe and demonstrate the clinical examination of surgical patient including swelling and order relevant investigation for diagnosis. Describe and discuss appropriate treatment plan.
17.	Developmental anomalies of face, mouth and jaws		
		SU19.1, 19.2	SGD:25
		in Sile and	Describe the etiology and classification of cleft lip and palate. Describe the Principles of reconstruction of cleft lip and palate
18	Oropharyngeal carcinoma	W.	SGD 26
		SU20.1 SU20.2	Describe etiopathogenesis of oral cancer symptoms and signs of oropharyngeal cancer Enumerate the appropriate investigations and discuss the Principles of treatment
19.	Disorders of salivary glands		or trodunion:
		SU21.1	SGD:27
		AN34.1	Describe surgical anatomy of the salivary glands, pathology, and clinical presentation of disorders of
		AN28.9	salivary glands Describe & demonstrate the morphology, relations and nerve supply of submandibular salivary gland & submandibular ganglion



			Describe & demonstrate the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance	
		'		
<u> </u>		SU21.2	SGD:28	
		'	Enumerate the appropriate investigations and	
		'	describe the Principles of treatment of disorders of	
			salivary glands	
	Τ	'	4.0	
20.	Thyroid and Parathyroid Glands		LO	
		SU22.1, 22.2	SGD:29	Hun
	N.	AN35.2	Describe the applied anatomy and physiology of thyroid. Describe the etiopathogenesis of thyroidal swellings. Describe & demonstrate location, parts, borders, surfaces, relations & blood supply of thyroid gland	
		SU22.3	SGD:30	
		PA32.1	Demonstrate and document the correct clinical examination of thyroid swellings and discus the differential diagnosis and their management Enumerate, classify and describe the etiology, pathogenesis, pathology and iodine dependency of thyroid swellings	
		!		
	T	SU22.4, SU22.5	SGD:31	
		AN35.8	Describe the clinical features, classification and	
	<u></u> ,	'	principles of management of thyroid cancer	



			Describe the applied anatomy of parathyroid	
			Describe and discuss the clinical features of hypo -	
			and hyperparathyroidism and the principles of their	
			management	
			Describe the anatomically relevant clinical features of	
			Thyroid	
24			swellings	
21.	Breast			
<u> </u>		SU 25.1	SGD:32	Humai
			Describe applied anatomy and appropriate	
			investigations for breast disease	
		AN9.2	Breast-Describe the location, extent, deep relations,	
			structure, age changes, blood supply, lymphatic drainage,	
			microanatomy and	
			applied anatomy of breast	
		11/9		
		SU 25.2	SGD:33	
		M.	Describe the etiopathogenesis, clinical features and	
			principles of management of benign breast disease	
	n		including infections of the breast.	
22.	Vascular diseases			
		SU 27.1, 27.2,		
		27.3, 27.4	SGD:34	
			Describe the etiopathogenesis, clinical features,	
			investigations and principles of treatment of	
		AN20.9	occlusive arterial disease. Demonstrate the correct	
			examination of the vascular system and enumerate	
			and describe the investigation of vascular disease.	
			Describe clinical features, investigations and	
			principles of management of vasospastic disorders.	
			Describe the types of gangrene and principles of	
			amputation.	
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MBBS Phase III/II-

Small group teachings/ Tutorials/ Integrated teaching/ Practical's: 125 hou

- Competencies written in red (horizontal) and green (vertical) are of alignment a
- 25 % of allotted time of the third professional shall be utilised for integrated lead clinical subjects and shall be assessed during the clinical subject's examination
- This allotted time will be utilised as integrated teaching by para- clinical subject Applied Anatomy, Clinical Pathology, Clinical Pharmacology, Clinical Microbiological Instruments, Operative Surgery, Communication skills etc.).

SR. NO.	TOPICS	COMPETENCIES	SUBTOPICS	
1.	Shock			
		SU 2.3	SGD: 1	
	MIN.		Communicate and counsel patients and families about the treatment and progno of shock demonstrating empathy and cap Define and describe shock, its pathogeneous	
		PA6.3	and its stages	
2	Blood and blood components			
		SU 3.3	SGD: 2	
		PA22.4	Councell patients and family/friend for blood transfusion and blood donation. Enumerate blood components and describe their clinical uses	
3.	Burns			
		SU 4.4	SGD: 3	
			Communicate and counsel patients and families on the outcome and rehabilitating demonstrating empathy and care.	



4.	Surgical infections		
		SU 6.1, 6.2,	SGD: 4
	MW Filst Roy	Kel coll	Communicate and counsel patients and families on the outcome and rehabilitation demonstrating empathy and care. Describe and discuss the aetiopathogen clinical features, Investigations and principles of management of Bone and infections. Describe and discuss the clinifeatures, Investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abcess and caries spine a) Acute Osteomyelitis b) Subacute osteomyelitis c) Acute Suppurative arthritis d) Septic arthritis & HIV infection e) Spirochaetal infection f) Skeletal Tuberculosis. Participate as a member in team for procedures like drainage of abscess, sequestrectomy/
		OR3.1,OR3.3,OR4.1	saucerisation and arthrotomy
5.	Ethics		
		SU 8.3	SGD: 5
			Discuss Medico-legal issues in surgical practice
6.	Investigation of surgical patient		
		SU 9.2	SGD: 6



			Biological basis for early detection of car
			and multidisciplinary approach in
			management of cancer
		SU 9.3	SGD: 7
			Communicate the results of surgical
			investigations and counsel the patient
			appropriately.
7.	Pre, intra and post operative	2	
	management.	20/	
		SU 10.2	SGD: 8
		16	Describe the steps and obtain informed
		1	consent in a simulated environment.
			Describe and discuss the
			aetiopathogenesis, clinical presentation,
			identification, functional changes, acute
			care, stabilization, management and
	. 4.		rehabilitation of the elderly undergoing
	management.	IM24.11	surgery
		SU 10.3	SGD: 9
			Observe common surgical procedures ar
			assist in minor surgical procedures; obse
			emergency life saving surgical procedure
		SU 10.4	SGD: 10
			Perform basic surgical skills such as first
			including suturing and minor surgical
			procedures in simulated environment.
8.	Anaesthesia and Pain Management		
		SU 11.3	SGD: 11
			Demonstrate maintenance of an airway
			mannequin or equivalent.
		SU 11.1, 11.2	SGD: 12



			Describe principles of preoperative
			assessment. Enumerate the principles of
			general, regional and local anaesthesia.
		SU 11.3, 11.4, 11.5	SGD: 13
			Enumerate the indications and principles
			day care general surgery. Describe
			principles of providing post-operative pa
			relief and management of chronic pain.
		-01,	Describe principles of safe General surge
9.	Nutrition and fluid therapy	, 6	
	<u> </u>	SU 12.1, 12.2	SGD: 14
	Mark High Explanation of the second of the s		Enumerate the causes and consequnces
			malnutrition in the surgical patient.
			Describe and discuss the methods of
	5		estimation and replacement of the fluid
			electrolyte requirements in the surgical
	· M		patient.
		SU 12.3	SGD: 15
	M'		Discuss the nutritional requirements of
			surgical patients, the methods of providi
			nutritional support and their complication
10.	Transplantation		
		SU 13.3	SGD: 16
			Discuss the legal and ethical issues
	<u> </u>		concerning organ donation.
11.	Biohazard disposal		
		SU 15.1	SGD: 17
			Describe electification of bachital waste
ı			Describe classification of hospital waste
12.	and the Heater state Company of the Company	+	appropriate methods of disposal.
12.	Minimally invasive General surgery		



		SU 16.1	SGD: 18
			Minimally invasive General surgery:
			Describe indications advantages and
			disadvantages of minimally invasive
			General surgery.
13.	Trauma		
		SU 17.4	SGD: 19
		.0	Describe pathophysiology, mechanism o
		-O'	head injuries.
		SU 17.5	SGD: 20
		10,	Describe clinical features for neurological
			assessment and GCS in head injuries.
	00	SU 17.6,	SGD: 21
	MMFilisile		Choose appropriate investigations and
			discuss the principles of management of
			head injuries.
			Describe the clinical features, evaluation
	· W		diagnosis and management of disability
	N.	PM8.1	following traumatic brain injury
	*	SU 17.7	SGD: 22
			Describe the clinical features of soft tissu
			injuries. Choose appropriate investigation
			and discuss the principles of managemen
			Describe and discuss the aetiopathogene
			clinical features, Investigations and
			principles of management of benign and
			malignant bone tumours and pathologic
		OR11.1	fractures
		SU 17.8	SGD: 23
			Describe pathophysiology of chest injurio
		SU 17.9	SGD: 24



		<u> </u>	
		_	Describe the clinical features and princip of management of chest injuries.
		SU 17.10	SGD: 25
			Demonstrate Airway maintenance. Recognise and manage tension pneumothorax, hemothorax and flail che in simulated environment.
14.	Skin and subcutaneous tissue	2	
		SU 18.3.	SGD: 26
	iles Par	Tel.	Describe and demonstrate the clinical examination of surgical patient including swelling and order relevant investigation for diagnosis. Describe and discuss appropriate treatment plan. Enumerate the indications of debrideme
		PM7.9	and Split thickness skin grafting.
15.	Oropharyngeal cancer		
		SU 20.1	SGD: 27
	B.		Describe etiopathogenesis of oral cancer Symptoms and signs of oropharyngeal cancer.
		SU 20.2	SGD: 28
			Enumerate the appropriate investigation for oropharyngeal cancer.
		SU 20.2	SGD: 29
			Enumerate the appropriate investigation for oropharyngeal cancer.
		SU 20.3	SGD: 30
			Enumerate the principles of treatment for oropharyngeal cancer.



			
			Enumerate the principles of treatment for
16	1		oropharyngeal cancer.
16.	Adrenal Glands		
		SU 23.1, 23.2	SGD: 32
		coin	Describe the applied anatomy of adrena glands. Describe the etiology, clinical features and principles of management disorders of adrenal glands.
		SU 23.3	SGD: 33
	.23		Describe the clinical features, principles investigation and management of adrentumors.
17.	Pancreas		
	\(\sigma\)	SU 24.1,	SGD: 34
			Describe the clinical features, principles investigation, prognosis and management of pancreatitis. Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications and metastases
	<u></u>	PA32.6	pancreatic cancer
		SU 24.2	SGD: 35
			Describe the clinical features, principles investigation, prognosis and management of pancreatic endocrine tumors.
		SU 24.3	SGD: 36
			Describe the principles of investigation a management of pancreatic disorders including pancreatitis and endocrine



18.	Breast		
		SU 25.3	SGD: 37
			Describe the etiopathogenesis, clinical
			features, investigations and principles of
			treatment of benign and malignant tumo
		2::25.2	of breast.
	<u> </u>	SU 25.3	SGD: 38
			Describe the etiopathogenesis, clinical
		C)	features, investigations and principles of
			treatment of benign and malignant tumo of breast.
	+	SU 25.4	SGD: 39
	-9	30 23.4	Counsel the patient and obtain informed
			consent for treatment of malignant
			conditions of the breast.
		SU 25.5	SGD: 40
	· 1/2 .		Demonstrate the correct technique to
	The same of the sa		palpate the breast for breast swelling in
			mannequin or equivalent.
19.	Cardio-thoracic General Surgery-		
	Chest- Heart and Lungs	211264	202.44
		SU 26.1	SGD: 41
			Outline the role of surgery in the
			management of coronary heart disease, valvular heart diseases and congenital he
			diseases.
	+	SU 26.2	SGD: 42
	+	30 20.2	Outline the role of surgery in the
			management of diseases of Thorax and
			Diaphragm
		SU 26.3	SGD: 43



	 -	
		Describe the clinical features of mediasit
		diseases and the principles of manageme
	SU 26.4	SGD: 44
		Describe the etiology, pathogenesis, clin features of tumors of the lung and the principles of management.
Vascular Diseases		
	SU 27.1	SGD: 45
	(6)	Describe the etiopathogenesis, clinical features, investigations and principles of treatment of occlusive arterial disease.
	SU 27.2	SGD: 46
Ciles Par		Demonstrate the correct examination of the vascular system and enumerate and describe the investigation of vascular disease.
. 4.	SU 27.3	SGD: 47
		Describe clinical features, investigations and principles of management of vasospastic disorders.
	SU 27.4	SGD: 48
		Describe the types of gangrene and principles of amputation.
	SU 27.5	SGD: 49
		Describe the applied anatomy of the venous system of lower limb.
	SU 27.6	SGD: 50
		Describe pathophysiology, clinical featurinvestigations and principles of management of DVT and varicose veins.
		SGD: 51
	Vascular Diseases	SU 27.2 SU 27.2 SU 27.3 SU 27.4



			Describe pathophysiology, clinical featur Investigations and principles of management of lymph edema, lymphang
l			and lymphomas.
		SU 27.8	SGD: 52
			Demonstrate the correct examination of
			the lymphatic system.
21.	Abdomen		
		SU 28.1.	SGD: 53.
	Man Files Raid	Hel.	Describe pathophysiology, clinical featur Investigations and principles of management of Hernias .
			Describe & demonstrate the Planes
	***		(transpyloric, transtubercular, subcostal,
l	6		lateral vertical, linea alba, linea
			semilunaris), regions & Quadrants of
	- 4.	AN44.1.	abdomen .
		SU 28.1 .	SGD: 54
	2)		Describe pathophysiology, clinical featur
			Investigations and principles of management of Hernias .
			Describe & demonstrate extent,
			boundaries, contents of Inguinal canal
	<u></u> _	AN44.4 . AN44.5	including Hesselbach's triangle.
		SU 28.1	SGD: 55
			Describe pathophysiology, clinical featur
			Investigations and principles of
ļ			management of Hernias
		SU 28.1	SGD: 56
			Describe pathophysiology, clinical featur
		AN44.4 . AN44.5	Investigations and principles of
L		AN44.4 . AN44.5	management of Hernias .



1			Final in the constant in the size of in mind.
			Explain the anatomical basis of inguinal hernia.
	5	SU 28.1	SGD: 57
			Describe pathophysiology, clinical featur Investigations and principles of management of Hernias . Describe and demonstrate boundaries,
		AN15.3	floor, roof and contents of femoral triang
		SU 28.1,AN44.6,	SGD: 58
		es co	Describe pathophysiology, clinical featur Investigations and principles of management of Hernias. Describe & demonstrate attachments of
<u> </u>			muscles of anterior abdominal wall
	5	SU 28.3	SGD: 59
	" Williams		Describe causes, clinical features, complications and principles of mangam of peritonitis
	in the second se	SU 28.3	SGD: 60
			Describe causes, clinical features, complications and principles of managament of peritonitis
		SU 28.3	SGD: 61
		AN47.5	Describe causes, clinical features, complications and principles of mangam of omental pathologies. Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations blood supply, nerve supply, lymphatic drainage and applied aspects)
		AN47.5	Ofamage and applied aspects)



· · · · · · · · · · · · · · · · · · ·		T	
		SU 28.4	SGD: 62
			Describe pathophysiology, clinical featur investigations and K principles of management of Intra-abdominal abscess mesenteric
	!	1	cyst, and retroperitoneal tumors
		SU 28.5	SGD: 63
		HM19.9	Describe the applied Anatomy and physiology of esophagus. Enumerate the indications for use of Surgery and botulinum toxin in the treatment of movement disorders
 		SU 28.5,	SGD: 64
	MMHFIISIRA	IM15.4, IM15.6	Describe the applied Anatomy and physiology of esophagus. Elicit document and present an appropri history that identifies the route of bleed quantity, grade, volume loss, duration, etiology, comorbid illnesses and risk factors. Distinguish between upper and lower gastrointestinal bleeding based or the clinical features SGD: 65
		SU 28.6,	
			Describe the clinical features, investigat and principles of management of benigr and malignant disorders of esophagus.
		SU 28.6	SGD: 66
			Describe the clinical features, investigat and principles of management of benigr and malignant disorders of esophagus
	!	SU 28.7	SGD: 67



		Describe the applied anatomy and
		physiology of stomach
	CILOGO	SGD: 68
	SU 28.8,	
		Describe and discuss the aetiology, the
		clinical features, investigations and
		principles of management of congenital
	COLL	hypertrophic pyloric stenosis, Peptic ulce
	c0'	disease, Carcinoma stomach.
	4.0	Describe and enumerate the indications,
	(8)	pharmacology and side effects of
	IM15.15	pharmacotherapy of acid peptic disease
		including Helicobacter pylori SGD: 69
	SU 28.9	
MMHHSIL		Demonstrate the correct technique of
		examination of a patient with disorders of the stomach.
· 19.		Enumerate describe and discuss the
		evaluation and steps involved in stabilizi
all.		a patient who presents with acute volum
	IM15.2	loss and GI bleed
		SGD: 70
	SU 28.10	
		Describe the applied anatomy of liver.
		Describe the clinical features, Investigati
		and principles of management of liver
		abscess, hydatid disease, injuries and tumors of the liver.
		Describe and discuss the management o
		hepatitis, cirrhosis, portal hypertension,
	INJE 16	ascites, spontaneous, bacterial peritonit
	IM5.16	and hepatic encephalopathy SGD: 71
	SU 28.10	אטט. / 1



			Describe the applied anatomy of liver.
			Describe the clinical features, Investigati
			and principles of management of liver
			abscess,
			hydatid disease, injuries and tumors of t
			liver
		SU 28.10	SGD: 72
		Yel colu	Describe the applied anatomy of liver. Describe the clinical features, Investigati and principles of management of liver abscess,
	- o	C/Fo	hydatid disease, injuries and tumors of the liver
	.2-	SU 28.11	SGD: 73
	NAM Filest		Describe the applied anatomy of spleen. Describe the clinical features, investigation and principles of management of splenic injuries. Describe the post-splenectomy sepsis - prophylaxis
		SU 28.11	SGD: 74
		PA24.5	Describe the applied anatomy of spleen. Describe the clinical features, investigati and principles of management of splenic injuries. Describe the post-splenectomy sepsis – prophylaxis Describe and etiology and pathogenesis pathologic features of Tuberculosis of th intestine
		SU 28.12	SGD: 75
			Describe the applied anatomy of biliary
l I			system. Describe the clinical features,



SU 28.12 SGD: 76 Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the applied anatomy of biliary system. Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Name & identify various peritoneal fold pouches with its explanation. Describe a etiology and pathogenesis and patholog and distinguishing features of inflammatory bowel disease SU 28.12 SGD: 79			
SU 28.12 SGD: 76 Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the applied anatomy of biliary system. Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Name & identify various peritoneal fold pouches with its explanation. Describe a etiology and pathogenesis and patholog and distinguishing features of inflammatory bowel disease SU 28.12 SGD: 79			investigations and principles of
Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the applied anatomy of biliary system. Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Discuss Paediatric surgery biliary disord. Name & identify various peritoneal fold pouches with its explanation. Describe a etiology and pathogenesis and patholog and distinguishing features of inflammatory bowel disease SU 28.12 SGD: 79			management of diseases of biliary syster
system. Describe the clinical features, investigations and principles of management of diseases of biliary system. SU 28.12 SGD: 77 Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. SGD: 78 SU 28.12 SGD: 78 Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the applied anatomy of biliary system. Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Describe the applied anatomy of biliary sys		SU 28.12	SGD: 76
Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Surplications and principles of management of diseases of biliary system. Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Discuss Paediatric surgery biliary disorded Name & identify various peritoneal folding pouches with its explanation. Describe a etiology and pathogenesis and pathologiand distinguishing features of inflammatory bowel disease SU 28.12 SGD: 79			investigations and principles of management of diseases of biliary system
system. Describe the clinical features, investigations and principles of management of diseases of biliary system. SU 28.12 SGD: 78 Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Discuss Paediatric surgery biliary disorded Name & identify various peritoneal folded pouches with its explanation. Describe a etiology and pathogenesis and pathologiand distinguishing features of inflammatory bowel disease SU 28.12 SGD: 78		SU 28.12	SGD: 77
Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system. Discuss Paediatric surgery biliary disorded Name & identify various peritoneal folds pouches with its explanation. Describe a etiology and pathogenesis and pathological and distinguishing features of inflammatory bowel disease SU 28.12 SGD: 79		Hei co,	
AN47.2,PA24.6 SU 28.12 SGD: 79		SU 28.12	SGD: 78
30 2012	MMHiisit		investigations and principles of management of diseases of biliary system Discuss Paediatric surgery biliary disorder Name & identify various peritoneal folds pouches with its explanation. Describe a etiology and pathogenesis and pathologicand distinguishing features of inflammatory bowel disease
30 2012			
system. Describe the clinical features, investigations and principles of management of diseases of biliary syste Discuss Choledochal cyst. Describe & identify boundaries and			investigations and principles of management of diseases of biliary system Discuss Choledochal cyst. Describe & identify boundaries and
AN47.1 recesses of Lesser & Greater sac		AN47.1	recesses of Lesser & Greater sac



	SU 28.13, 28.14	SGD: 80
	PA24.7	Describe the applied anatomy of small ar large intestine Describe the etiology and pathogenesis a pathologic and distinguishing features of carcinoma of the colon
	SU 28.13, 28.14	SGD: 81
	fer cour	Describe the clinical features, investigation and principles of management of disorder of small and large intestine including neonatal obstruction and Short gut syndrome
	SU 28.13, 28.14	SGD: 82
WN Filester		Describe the clinical features, investigation and principles of management of disorder of small and large intestine including neonatal obstruction and Short gut syndrome
	SU 28.13, 28.14	SGD: 83
		Describe the clinical features, investigati and principles of management of disorder of small and large intestine including neonatal obstruction and Short gut syndrome
	SU 28.13, 28.14	SGD: 84
		Describe the clinical features, investigati and principles of management of disorder of small and large intestine including neonatal obstruction and Short gut syndrome
	SU 28.13, 28.14	SGD: 85



		Describe the clinical features, investigation and principles of management of disorder
		of small and large intestine including neonatal obstruction and Short gut
		syndrome
	SU 28.13, 28.14	SGD: 86
	el com	Describe the clinical features, investigation and principles of management of disorder of small and large intestine including neonatal obstruction and Short gut syndrome
	SU 28.13, 28.14	SGD: 87
MMMKilesil		Describe the clinical features, investigation and principles of management of disorder of small and large intestine including neonatal obstruction and Short gut syndrome Demonstrate the surface projections of: stomach, liver, fundus of gall bladder, spleen, duodenum, pancreas, ileocaecal junction, kidneys & root of mesentery
	SU 28.13, 28.14	SGD: 88
		Describe the clinical features, investigati and principles of management of disorder of small and large intestine including neonatal obstruction and Short gut syndrome
	SU 28.13, 28.14	SGD: 89
		Describe the clinical features, investigati and principles of management of disorder of small and large intestine including



		neonatal obstruction and Short gut syndrome
	SU 28.15	SGD: 90
		Describe the clinical features, investigation of diseases of Appendix including appendicitis and its complications.
	SU 28.15	SGD: 91
	2 an Levi Colffi	Describe the principles of management diseases of Appendix including appendic and its complications. Demonstrate the surface marking of region and planes of abdomen, superficial ingui
	~?	ring, deep inguinal ring , McBurney's poi
	7 1113312	Renal Angle & Murphy's point
	SU 28.16	SGD: 92
"All I		Describe applied anatomy including congenital anomalies of the rectum and anal canal
- 47	SU 28.16	SGD: 93
		Describe applied anatomy including congenital anomalies of the rectum and anal canal
	SU 28.16	SGD: 94
		Describe applied anatomy including congenital anomalies of the rectum and anal canal
	SU 28.17	SGD: 95
		Describe the clinical features, investigat and principles of management of comm anorectal diseases
	SU 28.17	SGD: 96



1			Describe the clinical features, investigati
I			and principles of management of commo
 			anorectal diseases
		SU 28.17	SGD: 97
			Describe the clinical features, investigati
			and principles of management of commo
			anorectal diseases
22.	Urinary System		
		SU 29.1	SGD: 98
			Describe the causes, investigations and
		(0)	principles of management of Hematuria
		SU 29.2	SGD: 99
	00		Describe the clinical features, investigati
			and principles of management of conger
	(9		anomalies of genitourinary system
		SU 29.2	SGD: 100
	· M.		Describe the clinical features, investigation
			and principles of management of conge
	N		anomalies of genitourinary system
		SU 29.3	SGD: 101
			Describe the Clinical features, Investigat
			and principles of management of urinar
			tract infections
		SU 29.3	SGD: 102
			Describe the Clinical features, Investigat
İ			and principles of management of urinary
			tract infections including renal TB and
			abscess. Describe the etiology,
			pathogenesis, pathology, laboratory findings, distinguishing features progres
I			and complications of acute and chronic
l		PA28.10	pyelonephritis and reflux nephropathy
L		FA20.10	pyelonephilius and remax nephropatry



SU 29.4	SGD: 103
	Describe the clinical features, investigati
	and principles of management of
	hydronephrosis
SU 29.4	SGD: 104
	Describe the clinical features, investigati
	and principles of management of
	hydronephrosis
SU 29.5	SGD: 105
4.0	Describe the clinical features, investigation
	and principles of management of renal
	calculi.
	Define, classify and describe the etiology
**	pathogenesis, pathology, laboratory urin
	findings, distinguishing features,
	progression and complications of renal
PA28.13	stone disease and obstructive uropathy
PA28.13 SU 29.5	SGD: 106
	Describe the clinical features, investigation
	and principles of management of renal
	calculi
SU 29.6	SGD: 107
	Describe the clinical features, investigati
	and principles of management of renal
	tumours
SU 29.7	SGD: 108
	Describe the principles of management of
	acute and chronic retention of urine
SU 29.7	SGD: 109
	Describe the principles of management of
PA28.16	acute and chronic retention of urine.



		Describe the etiology, genetics,
		pathogenesis, pathology, presenting
		features and progression of urothelial
		tumors
	SU 29.8	SGD: 110
		Describe the clinical features, investigati
		and principles of management of bladde
	_	cancer
	SU 29.8	SGD: 111
	. 6	Describe the clinical features, investigati
	.01	and principles of management of bladde
7	<u> </u>	cancer
2	SU 29.9	SGD: 112
**		Describe the clinical features, investigati
5		and principles of management of disorder
		of prostate
	SU 29.9	SGD: 113
1/4		Describe the clinical features, investigati
- M		and principles of management of disord
		of prostate
	SU 29.10	SGD: 114
		Demonstrate a digital rectal examination
 		the prostate in a mannequin or equivale
	SU 29.10	SGD: 115
		Describe clinical features, investigations
		and management of urethral strictures
	SU 29.10	SGD: 116
		Describe clinical features, investigations
		and management of urethral strictures a
	OG26.2	urethral injuries.



			Describe the causes, prevention, clinical features, principles of management of
			genital injuries and fistulae
23.	Penis, Testis and scrotum		
		SU 30.1	SGD: 117
			Describe the clinical features, investigation and principles of management of phimo paraphimosis.
	4	AN46.1	Describe & demonstrate coverings, interstructure, side determination, blood supnerve supply, lymphatic drainage & descent of testis with its applied anatom
		SU 30.1	SGD: 118
	NANKIRSIRA	PA29.1	Describe the clinical features, investigation and principles of management of phimo paraphimosis. Classify testicular tumors and describe to pathogenesis, pathology, presenting and distinguishing features, diagnostic tests, progression and spread of testicular tumors. Recognize common surgical conditions of the abdomen and genitourinary system enumerate the indications for referral including acute and subacute intestinal obstruction, appendicitis, pancreatitis,
		PE21.14	perforation, intussusception, Phimosis, undescended testis, Chordee, hypospadiasis, Torsion testis, hernia Hydrocele, Vulval Synechiae
		SU 30.1,	SGD: 119



		-	
			Describe the clinical features, investigati and principles of management of phimosparaphimosis.
1	Į.	1	Describe the pathogenesis, pathology,
	Į.	1	presenting and distinguishing features,
	Į.	1	diagnostic tests, progression and spread
		PA29.2	carcinoma of the penis
		SU 30.1	SGD: 120
	ike Rak	COL	Describe the clinical features, investigation and principles of management of carcino
	J	1.0	penis.
			Describe the pathogenesis, pathology,
			hormonal dependency, presenting and
		1	distinguishing features, diagnostic tests, progression and spread of carcinoma of
	(5	PA29.4	prostate
		SU 30.2	SGD: 121
	14.		Describe the applied anatomy clinical
		1	features, investigations and principles of
	1/2	1	management of undescended testis.
	ļ	SU 30.3	SGD: 122
	Į.	1	Describe the applied anatomy clinical
	Į.	1	features, investigations and principles o
-		+	management of epidydimo-orchitis
-		SU 30.4	SGD: 123
	Į.	1	Describe the applied anatomy clinical
	Į.	1	features, investigations and principles o management of varicocele
		SU 30.5	SGD: 124
		30 30.3	Describe the applied anatomy clinical
	Į.	1	features, investigations and principles o
	ı	1	management of hydrocoele



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	SU 30.4	SGD: 125
		Describe classification, clinical features, investigations and principles of management of tumours of testis

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Internal Assessment

Subject: General surgery and allied including Orthopedics Applicable for batches admitted from 2019 and onwards

Phase	IA –	1 -Exam		IA – 2 -Exam		
	Theory General Surgery Only (January)	Practical EOP	Total Marks	Theory General Surgery Only (May)	Practical of Allied EOP	Total Marks
Second	50	50	100	50	Orthopedics = 25	100
MBBS					Radiodiagnosis = 25	

Phase	IA -	· 3 -Exam			IA – 4 -Exam	
	Theory General Surgery + allied) (January)	Practical EOP	Total Marks	Theory General Surgery + allied) (April)	Practical of Allied EOP	Total Marks
III	50	50	100	50	Orthopaedics =25	100
MBBS			S.	0	Anaesthesia =25	
Part I			. (5)			

Phase		IA – 5 - Exam		Prelim Exam	(As per universit	y pattern)
	Theory Gen Surgery + Allied (May)	Practical End of 8 Weeks posting	Total Marks	Theory (November)	Practical (November)	Total Marks
Ш	100	100	200	100 x 2	200	400
MBBS				papers =		
Part II				200		

(There will be FORMATIVE ASSESSMENT at the End of <u>four weeks Clinical Posting</u> of General Surgery NOT to be added to INTERNAL ASSESSMENT).

Assessment in CBME is **ONGOING PRCESS**,

No Preparatory leave is permitted.

- 1. There shall be 6 internal assessment examinations in General Surgery including allied.
- 2. The suggested pattern of question paper for internal assessment internal examinations, except prelim examination is attached at the end. Pattern of the prelims examinations should be similar to the University examinations.
- 3. Internal assessment marks for theory and practical will be converted to out of 50 (theory) +50 (practical). Internal assessment marks, after conversion, should be submitted to university within the stipulated time as per directives from the University.

4. Conversion Formula for calculation of marks in internal assessment examinations

	Theory	Practical			
Phase II	100	100			
Phase III/I	100	100			
Phase III/II	300	300			
Total	M/1.200	500			
Conversion out of	50	50			
Conversion formula	Total marks in 6 IA theory examinations /10	Total marks in 6 IA Practical examinations /10			
Eligibility criteria	20	20			
after conversion	Combined theory + Practical = 50				

5. While preparing Final Marks of Internal Assessment, the rounding-off marks shall done as illustrated in following table.

Total Internal Assessment Marks	Final rounded marks
33.01 to 33.49	33
33.50 to 33.99	34

- 6. Students must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40 % marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the final University examination of that subject.
- 7. Internal assessment marks will not to be added to marks of the University examinations and will be shown separately in mark list.

8. Remedial measures

A. Remedial measures for non-eligible students

- i) At the end of each internal assessment examination, students securing less than 50% marks shall be identified. Such students should be counseled at the earliest and periodically. Extra classes for such students may be conducted, if needed.
- ii) If majority of the students found to be weak in a particular area then extra classes must be scheduled for all such students.
- iii) Even after these measures, if a student is failed to secure 50% marks combined in theory and practical (40% separately in theory and practical) after prelim examination, the student shall not be eligible for final examination.
- iv) Non eligible candidates are offered to reappear for repeat internal assessment examination/s, which must be conducted 2 months before next University examination. Extra classes for such students may be conducted for such students. The pattern for this repeat internal assessment examination shall be similar to the final University examination. Only the marks in this examination shall be considered for deciding the eligibility criteria. Following conversion formula shall be used for converting the marks.

	Theory	Practical			
Remedial	200	200			
examination (as					
per final					
examination)					
Conversion out of	50	50			
Conversion	Marks in remedial	Marks in remedial			
formula	theory	Practical			
	examinations /4	examinations /4			
Eligibility criteria	20	20			
after conversion	Combined theory + Practical = 50				

B. Remedial measures for absent students:

- i. If any of the students is absent for any of the 6 IA examinations due to any reasons, following measures shall be taken.
- ii. The student is asked to apply to the academic committee of the college for reexamination, through HOD, to ascertain the genuineness of the reason for absentee.
- iii. If permitted by academic committee, an additional examination for such students is to be conducted after prelims examination. Marks for such additional examination shall be equal to the missed examination.
- iv. Even if a student has missed more than one IA examination, he/she can appear for only one additional IA examination. In such scenario, eligibility should be determined by marks obtained in internal assessment examinations for which the candidate has appeared, without changing the denominator of 500.



Internal Assessment Practical Examinations II MBBS

Internal Assessment - 1 General Surgery

	Clinical A (3	0)	OSCE &		
Long Case	Demonstration of clinical signs	Communicatio n skills	OSCE &	Table viva (20)	Grand Total A +B= 50
			OSCE of Psychomotor Skills	Table viva [Surgical pathology, X rays, Instruments, Logbook, Journal]	
20	5	5	10	10	50
			-olu		

Internal Assessment - 2 Orthopaedics and Radiodiagnosis (to be conducted at the end of respective clinical postings)

	chinear postings)			
	Subject: General Surgery Allied Practical (IA	A – 2)		
	Examination in Orthopaedics			
	Viva			
Case OSCE 1	(Surgical Pathology, Radiology, Instrument	Practical Tota		
	Procedure, Journal / log book)			
10 5	25			
	Subject: General Surgery Allied Practical (IA	A – 2)		
	Examination in Radiodiagnosis			
X-Ray and other diagnostic modalities - Basics	Viva (Knowledge of legal aspects, radiation protection etc)	Journal / log book	Practical Total	
15	5	5	25	



* The marks for internal assessment – 2 shall be communicated by orthopedics / Radiology department to General Surgery department immediately after completion of examination and assessment.

III MBBS Part I

Internal Assessment - 3

General Surgery

	Clinical A (3	0)	OSCE d		
Long Case	Demonstration of clinical signs	Communicatio n skills	OSCE of Psychomotor Skills	& Table viva Table viva [Surgical pathology, X rays, Instruments, Logbook, Journal]	Grand Total A +B= 50
20	5	5	10	10	50
			, c _O ,		

Internal Assessment - 4

Orthopaedics and Anaesthesia

OSCE 1	Examination in Ortho	<u>- </u>	1
	(Surgical Pathology, Radiology, Procedure, Journ	Instruments and Surgical	Practical Tota
5	10		25
	· · · · · · · · · · · · · · · · · · ·		
CE	Drugs, Instruments	Viva	Practical Tota
0	8	7	25
	CE	Subject: General Surgery Allied Examination in Anex Drugs, Instruments	Subject: General Surgery Allied Practical (IA – 2) Examination in Anesthesia Drugs, Instruments Viva



* The marks for internal assessment – 4 shall be communicated by orthopedics / Anaesthesia department to General Surgery department immediately after completion of examination and assessment.

III MBBS Part II

Internal Assessment - 5

General Surgery

	Clinical A (6	0)	OSCE d	& Viva B (40)	
Long Case	Demonstration of clinical signs	Communicatio n skills	OSCE & Table viva (40)		Grand Total A +B= 100
			OSCE of Psychomotor Skills	Table viva [Surgical pathology, X rays, Instruments, Logbook, Journal]	
40	10	10	20	20	100
			Ø,		
		MFirstRan			



MUHS final practical examination

General Surgery

Seat No.	Long Case General Surgery including communicatio n skill (60)		Short Case 1 General Surgery (30)		2 (rt Case Ortho 30)	General Surgery (60) OSCE # & Table viva		-	Ort ho (20)	Grand Total
	Long	Communic	Short	Clinical	Short	Clinical	Instruments	Instruments X rays + OSCE		OSCE	
	case	ation skills	case	signs	case	signs	+Procedure $+$	Surgical		(10) +	
	*			demo		demo	Log book	Pathology		Table	
						+Jou		+Journal		(10)	
	50	10	20	10	20	10	20	20	20	20	200

[#] OSCE Stations may include General examinations, Local examinations, psychomotor skills, Communication skills, AETCOM etc.

^{*}Communication skills to be assessed by Kalamazoo Consensus, clinical signs to be assessed by either GLOBAL Rating Scale or OSCE, Psychomotor Skills to be assessed by OSCE with checklist. If the skills are small, 2 or 3 skills may be combined.

Instructions:

1)

2)

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK Format / Skeleton of question paper for 1st & 2nd internal

Assessment Theory Examinations.

SECTION "A" MCQ

Use blue ball point pen only.

MANIFIE

Put in the appropriate box below the question number once only.

			3) 4)		lents ı		carries or not be al			k if he/she overwrites strikes or put	white ink on the cros	ss once
	1. N	lultiple	I "A" M (Choice (b) c)	Questio		otal -1	LO MCQ o	of One i)	mar j)	c each from General surgery)	(1x10=10)	
Instructions	1) 2) 3: 3) 4) 5)	Do n atter All qu The r	npt to re uestions	anythin sort to are con to the ri	g on t unfair npulsc ght in	he bl mea ory . dicat	ank port ns. es full me		the o	juestion paper . If written anything, suc	ch type of act will be c	onsidered as an
· 2. Long Ai	nswer Q	uestio	n (Any 2	out of 3	3) (Ge	neral	surgery)					(2 x 10 = 20)
a)		b)	c)									
3. Short a	nswer q	Juestio	ns (Any 4	4 out of	5) (A	t leas	st2 Clinica	al reas	onin	g question) (General surgery)		(4 x 5 = 20)
a)		b)	c)	d)		e)						



2. Long Answer Question (Any 2 out of 3) (General surgery)

3. Short answer questions (1 from AETCOM) (General surgery)

c)

4. Short answer questions (Any 2 out of 3) (At least 2 Clinical reasoning question) (Orthopaedics)

b) c)

b)

a)

a)

Format / Skeleton of question paper for 3rd and 4th internal Assessment Theory Examinations (III MBBS Part I)

SECTION "A" MCQ

				SECTION "A" MCQ	
ins	structi	ons:	5)	Put $igspace$ in the appropriate box below the question number once only.	
			6)	Use blue ball point pen only.	
			7)	Each question carries One mark.	
			8)	Students will not be allotted mark if he/she overwrites strikes or put wh marked.	ite ink on the cross once
	SE	CTION "	A" MC	Q (10Marks)	
1.	Mι	ıltiple Ch	oice O	Questions (Total -10 MCQ of One mark each from General surgery)	(1x10=10)
	a) b)	c)	d) e) f) g) h) i) j)	
		,	ĺ	, , , , , ,,	
	1)	Hse hl u	e/hlac	k ball point pen only.	
	,		•	anything on the blank portion of the question paper . If written anything, such t	tyne of act will be considered as an
	-/			sort to unfair means.	type of act will be considered as all
structions:	3)			are compulsory.	
Strattons.	<i>4)</i>			o the right indicates full marks.	
	7)				
	5)	Draw di	aaram	os wherever necessarv	
	5)	Draw di	agram	ns wherever necessary.	
	5)	Draw di	agram	is wherever necessary.	

 $(2 \times 10 = 20)$

 $(2 \times 5 = 10)$

 $(2 \times 5 = 10)$

Separate answer sheet for question 4 (SAQ from orthopaedics) may be used for the ease of evaluation.



Instructions:

Format / Skeleton of question paper 5th internal assessment Theory Examinations (III MBBS Part II)

SECTION "A" MCQ

10) Use blue ball point pen only.

9) Put in the appropriate box below the question number once only.

							will					rk if he/she overwrites strikes or put white ink on the cro.	ss once
		SECT	TION "A	" MCO	Q (20N	/lark	s)						
	1.		tiple Ch esthesia							of Or	ne m	ark each - 15 General surgery , 2 orthopaedics, (1	x20=20)
		a)	b)	c)	d)	e)		g)	h)	i)	j)		
		k)	I)	m)	n)		p)	q)	r)	s)			
					SEC	TION	l "B"	& "C'	,				
Instruction		2) C a 3) A 4) T	Jse blue D o not w Ittempt MI quest The num Oraw dia	vrite ar to reso tions ar ber to	nythir ort to re cor the ri	ng on unfa npul i ght i	the l ir me sory. indica	blank ans. ates fu	ıll ma		the (question paper . If written anything, such type of act will be c	onsidered as an
									S	ECTIC	ON "E	3"	
2 . Long An	swer	Quest	tions (S	Structu	red C	ase E	Based) (Ge	neral	Surg	ery)		(2x15=30)
a)	b)												
3.Short A	nswe	r Que	stions (Any 3	out of	f 4) (Any o	ne sh	ould	be Cli	inical	reasoning), 1 from AETCOM (General Surgery)	(3x5=15)
a)	b)	c)	d)										
			SECTIO	ON "C"									(00)
					noped	ics, 1	L Ane	sthes	ia, 1 I	Denti	stry c	or Radiodiagnosis)	(4 x5=20)
a)	b)	c)	d)										
5. Long A	nswe	r Que	stion (S	Structu	ıred C	ase I	Based	l) (Or	thop	edics)			(1 x15=15)
a)													(1 /10-13)
	Sc	nara	te and	Wer s	hee	t for	. עוופ	stin	n 5 (ι ΔΩ	fror	n orthonaedics) may be used for the ease of evalu	ıation

Instructions:

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Format / Skeleton of question paper for University Theory Examinations (III MBBS Part II) Paper – I

(Subject names to be removed)

SECTION "A" MCQ

13) Put in the appropriate box below the question number once only.

				15)	Eac. Stud	blue i h ques dents ked.	stion o	arries	One	ma		k if he/she overwrites strikes or put white	e ink on the cross once
		SECT	ION "A	A" MCC	Q (20N	/larks)						
	1.	Multi	iple Ch	oice Q	uestic	ons (To	otal-2	омсс	of C	ne r	nark	each) – (General surgery)	(1 x20=20)
		a)	b)	c)	d)	e)	f)	g)	h)	i)	j)		
		k)	I)	m)	n)	o)	p)	q) ı	r)	s)	t)		
Instruction	ns:	1) U.	se blue	e/black		TION point							
		2) D (at 3) A (4) T(o not v ttempt II quest he num	write a	nythir ort to re cor the r i	ng on t unfair npuls ight in	the bl e r meal ory . adicate	ank p ns. es full			the d	uestion paper . If written anything, such typ	e of act will be considered as an
									SE	стіо	N "B	,	
2 . Long A	nswe	r Quest	ions (S	Structu	ired C	ase Ba	ased)	(Gene	eral S	urge	ery)		(2x15=30)
· a)	b)												
3.Short	Answ	er Ques	stions ((Any or	ne sho	ould b	e Clini	cal re	ason	ing,	1 fro	m AETCOM) (General Surgery)	(3x5=15)
a)	b)	c)											
									SECT	ION	"C"		
4. Long	Answ	er Ques	stion (Structu	ured C	ase Ba	ased)	(Gen	eral S	urge	ery)		(1 x15=15)
a)													
3.Short	Answ	er Ques	stions ((Gener	al Sur	gery)	(Any 4	out	of 5)				(4 x5=20)
a)	b)	c)	d))	e)								

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Format / Skeleton of question paper for University Theory Examinations (III MBBS Part II) Paper II

(Subject names to be removed)

	Instructions:		18) 19)	SECTION "A" MCQ 17) Put in the appropriate box below the question number once only. 18) Use blue ball point pen only. 19) Each question carries One mark. 20) Students will not be allotted mark if he/she overwrites strikes or put white ink on the cross once marked.										
		SECTION	N "A" MC	Q (20N	1ark	s)								
			Choice nesia, 1 de						of O	ne n	ark each - 15 General surgery , 2 orthopedics, (1 x20=20))		
		a) b	o) c)	d)	e)	f)	g)	h)	i)	j)				
		k) l) m)	n)	o)	p)	q)	r)	s)	t)				
Instructions 2 . Long An	3 4 5) Do n atter) All qu) The i) Draw	mpt to res uestions a number to v diagram	ck ball panythin sort to lare con o the ri ns	g or unfa npul ght reve	t pen of the k air med isory . indica	blank p ans. ates ful essary.	ll m	arks.	ON "I	uestion paper. If written anything, such type of act will be conside "			
· a)	b)	<u>zuestion</u>	3 (Struct	ureu ca	35C I	Базец) (Gen	icia	ii Juig	сту	(2/13)	-30)		
		Questio	ns (any 5	out of	f 6) ((1 Ger	n. Surg	ery,	, 2 Rad	diodi	gnosis, 2 Anesthesia, 1 Dentistry) (5x5=	25)		
a)	b)	c)	d)	e)		f)								
								SE	CTION	ı "C"				
4. Long A	nswer	Questio	n (Struct	ured C	ase	Based	l)(Ort	hop	edics))	(1 x1	5=15)		
a)														
3.Short A		Questio	ns (Any 2	out of	3) (Ortho	pedics	5)			(2 x5:	=10)		
a)	b)	c)												



Paper wise distribution of topics for Prelim & MUHS Annual Examination

Year: III-II MBBS Subject: _General Surgery and allied

Paper	Section	Topics
I	A	MCQs on all topics of paper I of Surgery
	В	Metabolic response to injury, Shock, Blood and blood components,
		Burns, Wound healing and wound care, Surgical infections,
		Surgical Audit and Research, Nutrition and fluid therapy,
		Transplantation, Biohazard disposal, Trauma, Skin and
		subcutaneous tissue, Developmental anomalies of face, mouth
		and jaws, Oropharyngeal cancer, Disorders of salivary glands,
		Endocrine General Surgery: Thyroid and parathyroid, Adrenal
		glands, Breast, Vascular diseases, Ethics & AETCOM (module
		4.3,4.5,4.6)
		Abdomen- including Hernia, Peritoneum, GIT tract including
	С	esophagus, stomach, small intestine, colon rectum and anal canal,
		Liver , Spleen, Pancreas, Biliary tract , Minimally invasive
		Surgery, Pediatric surgery
II	Α	MCQs on all topics of the paper II including orthopaedics,
		anaesthesia, radiology, radiotherapy and dentistry.
	В	Cardio-thoracic - Chest - Heart and Lungs ,Urinary System- Kidney
		ureter and urinary bladder , Penis, Testis and scrotum, Plastic
		surgery, Oncology, Investigation of surgical patient, Pre, intra and
		post- operative management Radiology, Radiotherapy,
	in all	Anesthesia and pain management , Dentistry
	С	Orthopedics ,