

Re-Accredited 'B++' 2.86 CGPA by NAAC

**VEER NARMAD SOUTH GUJARAT UNIVERSITY**

University Campus, Udhna-Magdalla Road, SURAT - 395 007, Gujarat, India.

**વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી**

યુનિવર્સિટી કેમ્પસ, ઉધના-મગદલા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.

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## --: પરિપત્ર :-

તબીબી વિદ્યાશાખા હેઠળની અનુસ્નાતક અભ્યાસક્રમ ચલાવતી તમામ મેડીકલ કોલેજોના ડીનશ્રી ઓને જણાવવાનું કે, શૈક્ષણિક વર્ષ ૨૦૨૪-૨૫ થી Medical Faculty ના PG નાં Examination Scheme ને જે તે વિષયની સંબંધિત અભ્યાસ સમિતિની સભાની નીચે મુજબની ભલામણને તબીબી વિદ્યાશાખાનાં એસોસિએટ ડીનશ્રી/કાર્યકારી ડીનશ્રીએ તબીબી વિદ્યાશાખા વતી મંજૂર કરી એકેડેમિક કાઉન્સિલને કરેલ ભલામણને એકેડેમિક કાઉન્સિલની તા.૨૪/૧૨/૨૦૨૪ની સભાનાં ઠરાવ ક્રમાંક: ૩૫૩ અન્વયે માનનીય કુલપતિશ્રીને આપેલ સત્તા અંતર્ગત માનનીય કુલપતિશ્રી ધ્વારા મંજૂર કરેલ છે. જેની આથી જાણ કરવામાં આવે છે.

**Para Clinical વિષયની અભ્યાસ સમિતિની તા.૧૮/૦૭/૨૦૨૪ની સભાનાં ભલામણ ક્રમાંક: ૩**

:: આથી ઠરાવવામાં આવે છે કે, નવા નિયમોઅનુસાર UG/PG ની Examination Scheme આ સાથે સામેલ છે જે મંજૂર કરી તે મંજૂર કરવા તબીબી વિદ્યાશાખાને ભલામણ કરવામાં આવે છે.

**Pre- Clinical વિષયની અભ્યાસ સમિતિની તા.૧૮/૦૭/૨૦૨૪ની સભાનાં ભલામણ ક્રમાંક: ૩**

:: આથી ઠરાવવામાં આવે છે કે, નવા નિયમોઅનુસાર UG/PG ની Examination Scheme આ સાથે સામેલ છે જે મંજૂર કરી તે મંજૂર કરવા તબીબી વિદ્યાશાખાને ભલામણ કરવામાં આવે છે.

**General Medicine વિષયની અભ્યાસ સમિતિની તા.૧૮/૦૭/૨૦૨૪ની સભાનાં ભલામણ ક્રમાંક: ૩**

:: આથી ઠરાવવામાં આવે છે કે, નવા નિયમોઅનુસાર UG/PG ની Examination Scheme આ સાથે સામેલ છે જે મંજૂર કરી તે મંજૂર કરવા તબીબી વિદ્યાશાખાને ભલામણ કરવામાં આવે છે.

**Maternity & Child Health વિષયની અભ્યાસ સમિતિની તા.૧૮/૦૭/૨૦૨૪ની સભાનાં ભલામણ ક્રમાંક: ૩**

:: આથી ઠરાવવામાં આવે છે કે, નવા નિયમોઅનુસાર UG/PG ની Examination Scheme આ સાથે સામેલ છે જે મંજૂર કરી તે મંજૂર કરવા તબીબી વિદ્યાશાખાને ભલામણ કરવામાં આવે છે.

**General Surgery વિષયની અભ્યાસ સમિતિની તા.૨૨/૦૭/૨૦૨૪ની સભાનાં ભલામણ ક્રમાંક: ૩**

:: આથી ઠરાવવામાં આવે છે કે, નવા નિયમોઅનુસાર UG / PG ની Examination Scheme આ સાથે સામેલ છે જે મંજૂર કરી તે મંજૂર કરવા તબીબી વિદ્યાશાખાને ભલામણ કરવામાં આવે છે.

બિડાણ : ઉપર મુજબ

ક્રમાંક : ઓથોરીટીઝ/પરિપત્ર/૨૮૦૨/૨૦૨૫

તા.૨૯/૦૧/૨૦૨૫

*Wife*  
કુલસચિવવતી

પ્રતિ,

- ૧) તબીબી વિદ્યાશાખા હેઠળની અનુસ્નાતક અભ્યાસક્રમ ચલાવતી તમામ મેડીકલ કોલેજોના ડીનશ્રીઓ.  
.....આપશ્રીની કોલેજના સંબંધિત શિક્ષકોને જાણ કરી અમલ કરવા સારૂ.
- ૨) અધરધેન ડીનશ્રી, તબીબી વિદ્યાશાખા
- ૩) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.  
.....તરફ જાણ તેમજ અમલ સારૂ.

# PRACTICAL

Department of Patho/Pharmac/Microbiology

Faculty : MBBS      Year/Phase-

Date : dd/mm/yyyy

S.No.	Roll No.	Name of Student	Formative Assessment			Continuous Internal Assessment (Practical)							
			1st PCT Practical/First Ward Leaving Examination	2nd PCT Practical /Second Ward Leaving Examination	Prelims Practical	Log book (150)			FAP	Journal (Record book)	Attendance (Practical)	Total	Percentage Practical (Minimum cut off 40%)
						Certifiable skill based competencies (Through OSPE/OSCE/Spots/Exercise/Other)	AETCOM competencies	SVL Lab activity					
			100	100	100	60	30	40	20	40	10	500	%
1													
2													
3													

S/d  
Prof. , HOD,  
College,  
Univ,  
State/ U.T.



*Shah*  
16/7

*Dr. Khatke*  
CDR Khatke (Tardel)  
HOD Pharmacology  
AMERS MC VALSAD

*Desai*  
CDR Anupama Desai  
HOD Pharmacology  
SMIMER

# Forensic Medicine & Toxicology

## Undergraduate

**Examination Scheme of Third MBBS Part-1**

1	2	3	4	5	6	7	8	9	10	11
Sr. No	Name of Subject	University Exam Theory Total Marks	University Exam Theory Total Marks Required for Passing	University Exam Practical Total Marks	University Exam Practical Total Marks Required for Passing	Internal Exam Theory Total Marks	Internal Exam Theory Total Marks Required for Passing	Internal Exam Practical Total Marks	Internal Exam Practical Total Marks Required for Passing	Subject wise additional passing head at Internal & University Examination
1	Forensic Medicine	100	40	50	20	375	150	500	200	437.5 Marks Out of 875 (no. 7+9=11) 75 Marks Out of 150 (no.3 +5=11)
2	Community Medicine Paper-I	100				500	200	500	200	500 Marks Out of 1000 (no. 7+9=11)
	Community Medicine Paper-II	100		100	40					
	Community Medicine Paper I and Paper II together	200	80							150 Marks Out of 300 (no.3 +5=11)
		300	120	150	60					

**Other Passing Heads**

University Theory: 300 (Passing marks 120 out of 300)

University Practical: 150 (Passing marks 60 out of 150)

Total: 450 (Passing marks 225 out of 450)

Note:

Marks obtained from internal assessment are to be shown in the mark sheet separately but should not be counted for awarding class, medal, prize, rank or for any other purpose than eligibility for appearing in University Examination.

\* No Grace Marks for Passing in University Examination

Remedial marks should be mentioned by application of (R) along with marks obtained.

Subject name ÷ Forensic Medicine & Toxicology

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18/10/2024

Shyam  
18/10/2024

Shah  
18/10/2024

## Forensic Medicine & Toxicology

### Syllabus and pattern of theory and practical examination

Professional	Syllabus for Forensic Medicine	Syllabus for Toxicology
2 <sup>nd</sup> Professional year (1 <sup>st</sup> Internal)	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Legal procedure</li> <li>3. Identification</li> <li>4. Medico-legal Autopsy</li> <li>5. Death &amp; its causes</li> <li>6. Post-mortem changes</li> </ol>	<ol style="list-style-type: none"> <li>1. General Toxicology</li> <li>2. Agricultural Poison</li> </ol> <p><b><u>Acts:-</u></b></p> <ol style="list-style-type: none"> <li>1. NDPS ACT 1985</li> <li>3. Organtransplant Act 1994</li> </ol>
3 <sup>rd</sup> Professional Year Part-1 (2 <sup>nd</sup> Internal)	<ol style="list-style-type: none"> <li>1. Mechanical Injuries</li> <li>2. Regional injuries</li> <li>3. Medico-legal aspects of wounds</li> <li>4. Torture-Custodial death</li> <li>5. Mechanical Asphyxia</li> <li>6. Thermal Injury</li> <li>7. Impotence and sterility</li> <li>8. Virginity, Pregnancy &amp; Delivery</li> <li>9. Sexual offences and laws</li> <li>10. Abortion</li> <li>11. Infant death</li> </ol>	<ol style="list-style-type: none"> <li>1. Corrosive poisons</li> <li>2. Irritant Poison               <ol style="list-style-type: none"> <li>a. Inorganic                   <ul style="list-style-type: none"> <li>• Metallic</li> <li>• Non metallic</li> </ul> </li> <li>b. Organic                   <ul style="list-style-type: none"> <li>• Animal</li> <li>• Vegetable</li> </ul> </li> </ol> </li> <li>3. CNS Depressant</li> <li>4. Deliriant poisons</li> </ol> <p><b><u>Acts:-</u></b></p> <ol style="list-style-type: none"> <li>1. MTP Act 1971 New Amendment</li> <li>2. PCPNDT Act</li> </ol>
3 <sup>rd</sup> Professional Year Part-1 (Preliminary) (Whole Syllabus)	<ol style="list-style-type: none"> <li>1. Medical Law &amp; Ethics</li> <li>2. Forensic Psychiatry</li> <li>3. Blood &amp; its Medicolegal aspects</li> <li>4. PM Artefacts</li> <li>5. Starvation</li> <li>6. Anesthetic &amp; Operative Death</li> <li>7. FSL</li> <li>8. Scene of Crime Investigation</li> </ol>	<ol style="list-style-type: none"> <li>1. Psychomotor drugs</li> <li>2. Drug dependence and abuse</li> <li>3. Spinal poisons</li> <li>4. Cardiac poisons</li> <li>5. Asphyxiant</li> <li>6. Food poisoning</li> </ol> <p><b><u>Acts:-</u></b></p> <ol style="list-style-type: none"> <li>1. Mental Heal Act 2017</li> <li>2. CPA</li> </ol>

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18/07/2024

*Sharma*  
18/7/2024

**1. Theory and Practical examination pattern:**

**A) Theory examination pattern:**

- Theory paper for Internal Exam, Pre-University (Preliminary) & University examination will be of 100marks in 3 hours.
- In 2<sup>nd</sup> Professional year, there will be internal examinations of both theory & practical and in 3<sup>rd</sup> Professional year Part-I there will be 1 internal examination and 1 will be pre-university (Preliminary) examination of both theory and practical.
- **All Examination is consisting as-** Theory is of 100 marks (time duration 3 hrs.) practical examination is of 100 marks distributed as -Pm report writing & It's Viva (20 marks), Certificate writing & It's Viva (20 marks), Spotting (20 marks) 10 spot (each carry 2 marks), and Grand Viva consist of Viva-1 (Forensic Medicine 20 Marks) & Viva 2 (Toxicology 20 Marks) are there. Time duration for each exercise is as per University examination schedule.

**THEORY EXAMINATION PATTERN**

**Total Marks - 100**

**Section-1 (Forensic Medicine) 50 marks**

- Q: 1 Full question ----- 10 marks
- Q: 2 Case based scenarios/Applied Short notes (Any 2 out of 3) -----  $2 \times 6 = 12$  marks
- Q: 3 Short notes (Any 4 out of 5) -----  $4 \times 4 = 16$  marks
- Q: 4 One or two line questions (Any 6 out of 7) -----  $6 \times 2 = 12$  marks

**Section-2 (Toxicology) 50 marks**

- Q: 1 Full question ----- 10 marks
- Q: 2 Case based scenarios/Applied Short notes (Any 2 out of 3) -----  $2 \times 6 = 12$  marks
- Q: 3 Short notes (Any 4 out of 5) -----  $4 \times 4 = 16$  marks
- Q: 4 One or two line questions (Any 6 out of 7) -----  $6 \times 2 = 12$  marks

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**B) Practical Examination Pattern:**

- Internal and Pre-University (Preliminary) Practical examination will be of 100 marks but In University, Practical examinations will be of 50 marks with following marks distribution.

No.	Exercise	Internal, Pre University & Remedial Examination Marks  (100 Marks)	University examination marks  (50 Marks)	Remarks
1	Post mortem report & viva	20	10	Postmortem report writing time: 20minutes Timeforviva:4minutes
2	Medico-legal certification & viva	20	10	Medico-legal certification report writing time:20minutes Timeforviva:4minutes
3	Spotting	20	10	Spotting:(10spots)
4	Forensic Grand viva (Soft tissue and weapons, bone, hypothetical Questions etc)	20	10	Time for viva:5minutes
5	<ul style="list-style-type: none"><li>• Toxicology Grand viva (Soft tissue and poison, case based scenario, hypothetical questions etc)</li><li>• Forensic Psychiatry</li><li>• Law and ethics</li></ul>	20	10	Time for viva:5minutes

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2. Calculation of Internal marks for appearing university examination:

**Theory examination:**

Name of examination Formative Assessment			Continuous Internal Assessment			Total Marks	Minimum 40%
1 <sup>st</sup> Int.	2 <sup>nd</sup> Int.	Prelim	CCT MCQ Test	SDL/Seminar/ Assignment	Attendance		
Marks	Marks	Marks	Marks	Marks	Marks		
100	100	100	25	40	10	375	

**Abbreviation:-**

Int. - Internal Exam

SR- Seminar Presentation

SDL- Self Directed Learning

Prelim- Preliminary Exam (PreUniversity)

CCT- Continuous Class Test

**Practical examination:**

Name of examination Formative Assessment			Continuous Internal Assessment(Practical)				Total Marks	% Minimum 40%
1 <sup>st</sup> Int.	2 <sup>nd</sup> Int.	Prelim	Skill Activity		Journal Record	Attendance (Practical)		
PRCT	PRCT	PRCT	CSBC	AETCOM Activity				
Marks	Marks	Marks	Marks	Marks	Marks	Marks		
100	100	100	70	80	40	10	500	%

**Abbreviation:-**

PRCT- Practical

CSBC- Certifiable Skill Based Competency

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**NOTE:**

1. For appearing in University examination, aggregation marks of both theory and practical of all examinations shall be 50% or more, not less than 40% in theory and practical individually.
2. If Student get internal marks of 40 % in theory and 60% in practical, than he/she is eligible for appear in University Examination and same as Vice Versa
3. Attendance for appearing for University exam in theory classes will be 75% and 80% in practical classes.
4. For MCQ test in theory, it will be conducted in between internal & preliminary examination and it will be purely taken via Google linked test.
5. For SDL/ Seminar/Assignment test, topic has been assigned in group of 5 students and all has to do work and present before department as directed by faculty/mentor.
6. For CSBC test all student has to demonstrate and perform following test and marks distribution for each is mentioned in right side
  - Rigor Mortis/PM Lividity/Incision Technique/Clothe examination -- 25 Marks
  - Bone Examination and Report Making -- 25 Marks
  - Weapon Examination and Report Making -- 20 Marks

Total      70 Marks
7. For AETCOM activity, it will be carried out in group of 5 students and each student has to demonstrate following activity and marks distribution for each is mentioned in right side
  - Consent Taking – 30 Marks
  - Dying Declaration -- 30 Marks
  - Court Deposition – 20 Marks

Total      80 Marks

**Rules for remedial examination:**

1. Student has been appearing in all internal examination of every semester.
2. Preliminary examination must be compulsory.
3. Student should have to give valid reason for not appearing in internal examination.
4. Remedial examination is of 100 marks of theory and 100 marks of practical, as replica of Preliminary marks.

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## Forensic Medicine & Toxicology

1. Marks distribution in Internal Examination & Preliminary Examination:

Professional year	Name of Exam	Total Marks in Theory	Total Marks in Practical
2 <sup>nd</sup> MBBS	1 <sup>st</sup> Internal	100	100
3 <sup>rd</sup> MBBS Part-I	2 <sup>nd</sup> Internal	100	100
3 <sup>rd</sup> MBBS Part-I	Preliminary (Pre-University)	100	100
3 <sup>rd</sup> MBBS Part I	Remedial exam	100	100
3 <sup>rd</sup> MBBS Part I	University exam	100	50

2. Eligibility- At the end of All Internal Exams: Internal marks for Theory & Practical will be calculated as follows

### Theory examination:

Name of examination Formative Assessment			Continuous Internal Assessment						Total Marks	% Minimum 40%
1 <sup>st</sup> Int.	2 <sup>nd</sup> Int.	Prelim	HA	SR	CCT	SDL		Attendance		
Marks	Marks	Marks	Marks	Marks	Marks	MS	LA	Marks		
100	100	100	10	10	25	10	10	10	375	%

### Practical examination:

Name of examination Formative Assessment			Continuous Internal Assessment (Practical)					Total Marks	% Minimum 40%
1 <sup>st</sup> Int.	2 <sup>nd</sup> Int.	Prelim	Log Book (150 Marks)			Journal Record	Attendance (Practical)		
PRCT	PRCT	PRCT	CSBC	AETCOM	Lab Activity	Marks	Marks		
100	100	100	70	40	40	40	10	500	%

3. Exam pattern of theory, practical and formative assessment is as follows

- i. In 2<sup>nd</sup> Professional year, there will be only one internal examinations and in 3<sup>rd</sup> Professional year Part-I there will be 1 internal exam and 1 will be pre-university examination
- ii. **All Examination is consisting as** - Theory is of 100 marks (time duration 3 hrs.) practical examination is of 100 marks distributed as - Pm report writing & It's Viva (20 marks), Certificate writing & It's Viva (20 marks), Spotting (20marks) 10 spot (each carry 2 marks), and Grand Viva consist of Viva-1 (Forensic Medicine 20 Marks) & Viva 2 (Toxicology 20 Marks) are there. Time duration for each exercise is as per University examination schedule.
- iii. Pattern, Marks & Time duration of Theory and Practical of all exams are shows in following table as Table- A and Table-B respectively as follows

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**TABLE- A- THEORY EXAMINATION PATTERN**

<b>2<sup>nd</sup> Internal, PreUniversity, Remedial &amp; University 100 Marks (No MCQ)</b>	
<b>Section A &amp; B Each of (50 marks) and each section has following question patterns are there.</b>	
<b>Time Duration: 3 Hrs.</b>	
Long assay question (Descriptive)	= 10 marks x 1 = 10 marks (No option)
Case base scenario / Applied short notes	= 6 marks x 2 = 12 marks (any 2 out of 3)
Short notes	= 4 marks x 4 = 16 marks (any <b>4</b> out of <b>5</b> )
One or Two line quest.	= 2 marks x 6 = 12 marks (any 6 out of 7)

**TABLE- B- PRACTICAL EXAMINATION PATTERN**

No.	Exercise	Marks In 2 <sup>nd</sup> Internal, Pre University & Remedial Examination Total Marks-100	Marks In University examination Total Marks-50	Remarks
1	Postmortem report & Viva	20	10	Post mortem report writing time: 20 minutes Time for viva: 4 minutes
2	Medico-legal certification & Viva	20	10	Medico-legal certification report writing time: 20 minutes Time for viva: 4 minutes
3	Spotting	20	10	Spotting: (10 spots)
4	• Forensic Medicine Grand Viva (Soft tissue specimens, weapons, bone, hypothetical questions etc)	20	10	Time for viva: 5 minutes
5	• Toxicology Grand Viva (Soft tissue specimens, poison, case based scenario, hypothetical questions etc) • Forensic Psychiatry • Law and ethics	20	10	Time for viva: 5 minutes

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**VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT**  
**GOVERNMENT MEDICAL COLLEGE, SURAT**

**M.D. FORENSIC MEDICINE & TOXICOLOGY**  
**PRACTICAL EXAMINATION**

	THEORY				Total of Theory Marks	PRACTICAL			Viva (Oral)	Total (Practical + Viva)	Total of Theory & Practical	Remarks
	Paper 1	Paper 2	Paper 3	Paper 4		Long Case	Short Case and Spots	Total				
<b>Max. Marks</b>	100	100	100	100	<b>400</b>	150	150	300	100	<b>400</b>	800	
<b>Mini. Marks</b>					<b>200</b>					<b>200</b>		
<b>Marks Gained</b>												PASS / FAIL

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18/10/2024  
(Forensic Medicine & Toxicology)

Practical Marks - (M.D.) (FMT)

**A. Long Case 150 Marks**

- 1. Que 1 Autopsy 70 Marks
  - 2. Que 2
  - 3. Que 3
  - 4. Que 4
- 80 Marks
- 150 Marks

**B. Short Case & Spotting 150 Marks**

- 5. Que 5 - 50 Marks
  - 6. Que 6 - 30 Marks
  - 7. Que 7 - 20 Marks
  - 8. Que 8 - 50 Marks
- 150 Marks

**C. Grand Viva 100 Marks**

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18/7/2024

gkiani  
18/7/2024  
Forensic Medicine & Toxicology

Details of MD (FMT)

Que.7	Slide examination (four)	Max. marks	Obtained marks
1	Slide 1	5	
2	Slide 2	5	
3	Slide 3	5	
4	Slide 4	5	
Total		20	

Que.8.	Spotting (Ten Spots)	Marks(each)	No.	Max. marks	Obtained marks
1	Weapon	5	2	10	
2	Poison	5	2	10	
3	X ray	5	2	10	
4	Soft Specimen	5	2	10	
5	Photographs	5	2	10	
TOTAL				50	

		Max. marks	Obtained marks
1	Grand Viva	100	

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18/7/2024

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18/7/2024  
(Forensic Medicine & Toxicology)

**M.D. FORENSIC MEDICINE & TOXICOLOGY  
EXERCISE IN PRACTICAL EXAMINATION**

		Max. marks	Obtained marks
<b>Que.1.</b>	Autopsy	70	

		Max. marks	Obtained marks
<b>Que.2</b>	Bone Examination	30	
<b>Que 3</b>	Fetus Examination	30	
<b>Que.4</b>	Expert Opinion	20	

<b>Que.5</b>	Medicolegal Exercises	Max. marks	Obtained marks
	a) Age Estimation	10	
	b) Injury Report	10	
	c) Drunkenness	10	
	d) Sexual Offences	10	
	e) Potency	10	
<b>TOTAL</b>		50	

<b>Que.6.</b>	Medicolegal lab Tests	Max. marks	Obtained marks
1	Slide(Gram) staining	10	
2	Cloth examination	10	
3	Blood Grouping	10	
<b>TOTAL</b>		30	

*Chah*  
18/07/2024

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18/7/2024

**Examination Scheme of Second MBBS**

1	2	3	4	5	6	7	8	9	10	11
Sr. No	Name of Subject	University Exam Theory Total Marks	University Exam Theory Total Marks Required for Passing	University Exam Practical Total Marks	University Exam Practical Total Marks Required for Passing	Internal Exam Theory Total Marks	Internal Exam Theory Total Marks Required for Passing	Internal Exam Practical Total Marks	Internal Exam Practical Total Marks Required for Passing	Subject wise additional passing head at Internal & University Examination
1	Pharmacology Paper-I	100				500	200	500	200	500 Marks Out of 1000 (no. 7+9=11)  150 Marks Out of 300 (no.3 +5=11)
	Pharmacology Paper-II	100								
	Pharmacology Paper I and Paper II together	200	80	100	40					
2	Pathology Paper-I	100				500	200	500	200	500 Marks Out of 1000 (no. 7+9=11)  150 Marks Out of 300 (no.3 +5=11)
	Pathology Paper-II	100								
	Pathology Paper I and Paper II together	200	80	100	40					
3	Microbiology Paper-I	100				500	200	500	200	500 Marks Out of 1000 (no. 7+9=11)  150 Marks Out of 300 (no.3 +5=11)
	Microbiology Paper-II	100								
	Microbiology Paper I and Paper II together	200	80	100	40					
		600	240	300	120	1500	600	1500	600	

**Other Passing Heads**

University Theory: 600 (Passing marks 240 out of 600)

University Practical: 300 (Passing marks 120 out of 300)

Total: 900 (Passing marks 450 out of 900)

Note:

Marks obtained from internal assessment are to be shown in the mark sheet separately but should not be counted for awarding class, medal, prize, rank or for any other purpose than eligibility for appearing in University Examination.

\* No Grace Marks for Passing in University Examination

*Handwritten signature*  
18/7/22

*Handwritten signature*  
(Dr. Kiran Tandel)  
HOD Pharmacology  
GMERS MC VALSAD

*Handwritten signature*  
(Dr. Anupama Desai)  
HOD Pharmacology  
SMIMER

**Department OF Patho/Pharmac/Microbiology**

Faculty : MBBS Year/Phase-

S.No.	Roll No.	Name of Student	Formative Assessment_Theory			Continuous Internal assessment_Theory						Cumulative percent of Theory & Practical		
			1st PCT Theory	2nd PCT Theory	Prelims Theory (Paper I & II)	Home Assignmen t	Seminar	Continuous Class Test (LMS)	Museum study	Library assignments	Attendance Theory	Total	Percentage Theory (Minimum cut off 40%)	Theory+ Practical = 500+500= 1000 (Minimum cut off 50%)
									Self Directed Learning					
			100	100	200	15	15	30	15	15	10	500	%	
1														
2														
3														

S/d  
 Professor & Head  
 Department of \_\_\_\_\_  
 College,  
 Univ.,  
 State/U.T.

*Arisei*

*Shah*  
15/7

Second MBBS  
Pharmacology Paper Pattern

Paper 1 (100 marks)

Paper 2 (100 marks)

Section I

Q.1 MCQ's (20 MCQ's)  $1 \times 20 = 20$  marks

Section II

Q.2 Short answer questions  
(Any 5 out of 6)  $3 \times 5 = 15$  marks

Q.3 Short Essay questions  
(Any 3 out of 4)  $5 \times 3 = 15$  marks

Q.4 Case Based Question  $1 \times 10 = 10$  marks.

Section III

Q.5 Short answer questions  
(Any 5 out of 6)  $3 \times 5 = 15$  marks

Q.6 Short Essay questions  
(Any 3 out of 4)  $5 \times 3 = 15$  marks

Q.7 Case Based question  $1 \times 10 = 10$  marks

Attachment: Topics to be covered in Paper 1 &  
Paper 2.

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18/7

# Paper-1

<p><b>General Pharmacology</b> Sources, Routes, PK, PD, ADR+ Clinical pharmacology- TDM, Factors</p> <p><b>PH 1.1 to PH 1.12.</b></p>	<ul style="list-style-type: none"><li>• Introduction, definition, scope &amp; historic development of the subject</li><li>• Routes of drug administration and their formulations</li><li>• Principles &amp; applied aspects of Pharmacokinetics &amp; Therapeutic drug monitoring</li><li>• Principles of Pharmacodynamics</li><li>• Adverse drug reactions &amp; drug interactions</li><li>• Principles of Assays</li><li>• New drug development: Basic principles of clinical trials</li></ul>
<p><b>Autonomic Nervous System</b> Adrenergic, cholinergics and their agonists &amp; Antagonists</p> <p><b>PH 1.13 TO PH 1.14</b></p>	<ul style="list-style-type: none"><li>• Neuro-humoral transmission</li><li>• Drugs &amp; Ganglionic transmission</li><li>• Drugs &amp; Neuromuscular junction</li><li>• Cholinergic &amp; Anti-cholinergic system &amp; related drugs</li><li>• Adrenergic &amp; Anti-Adrenergic system &amp; related drugs</li></ul>
<p><b>Central Nervous –</b> GA, including substances of abuse &amp; Opioids .</p> <p><b>PH 1.18 TO PH 1.23</b></p>	<ul style="list-style-type: none"><li>• Neuro-humoral transmission in CNS</li><li>• General anaesthetic drugs</li><li>• Sedative-Hypnotics including alcohol</li><li>• Centrally acting muscle relaxants</li><li>• Anti-epileptic and anti-convulsant drugs</li><li>• Anti-parkinsonian drugs &amp; therapy of Parkinsonism</li><li>• Narcotic analgesics &amp; antagonists</li><li>• Anti-psychotics, Anti-depressants, Anti-manic &amp; Hallucinogens</li><li>• CNS Stimulants &amp; drugs affecting cognition</li><li>• Principles of de-addiction programme</li><li>•</li></ul>
<p><b>Peripheral nervous system</b> (Local anaesthetics, skeletal muscle relaxants)</p> <p><b>PH 1.15, PH 1.17</b> Autacoids (Prostaglandins, histamine and antihistamines, Treatment of migraine) &amp; NSAIDs &amp; Drugs used in the treatment of gout and rheumatoid arthritis</p> <p><b>PH 1.16</b></p>	<ul style="list-style-type: none"><li>• Drugs producing local anaesthesia and their therapeutic applications</li><li>• Histamine, serotonin, bradykinin, prostaglandins, leucotrienes</li><li>• NSAIDs</li><li>• Treatment of Rheumatoid arthritis, Gout &amp; Migraine</li></ul>

*K. Desai*  
18/10/24

*K. Desai*  
18/10/24

*Shah*  
18/10/24

Occupational and environmental pesticides,  
food adulterants, Pollutants & insect  
repellents, Common poisoning,  
insecticides, stings & bites,  
Chelating agents, EDL, FDC, OTC, Herbal  
medicines, Pharmacogenomics,  
Pharmacoeconomics, Drug therapy in special  
population, Geriatric & Paediatric  
pharmacology, Drug regulations, Phases of  
clinical trial, GCP, Drug development  
Pharmacovigilance.

**PH 1.51, PH 1.52, PH 1.53, PH 1.59, PH 1.60,  
PH 1.56, PH 1.63,  
PH 1.64**

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*18/12/24*

## Paper-2

<p><b>Cardio Vascular System</b>          Cardiovascular system          + treatment of shock          Dyslipidemia  <b>PH1.24,PH 1.26 to PH 1.30</b></p>	<ul style="list-style-type: none"> <li>• Hypertension</li> <li>• Congestive cardiac failure</li> <li>• Ischemic heart disease</li> <li>• Cardiac arrhythmia              (ARBs + ACEi + Alpha &amp; Beta blockers + Vasodilators + CCBs + diuretics)</li> </ul>
<p><b>Blood PH1.25,PH1.31,PH 1.35</b></p>	<ul style="list-style-type: none"> <li>• Hematinics&amp;Erythropoetin</li> <li>• Drugs Related to coagulation, bleeding, thrombosis</li> <li>• Lipid Lowering Agents</li> </ul>
<p><b>Gastro-Intestinal system PH 1.34</b></p>	<ul style="list-style-type: none"> <li>• Acid peptic disease &amp; drugs</li> <li>• Emetics &amp; Anti-emetics</li> <li>• Drugs Useful in treating Constipation</li> <li>• Principles of treating diarrhoea              Carminatives, Appetizers, Appetite suppressants</li> </ul>
<p><b>Endocrinology:</b>          Endocrines including Hormonal contraceptives+ Drugs acting on uterus.  <b>PH 1.36 To PH1.41</b></p>	<ul style="list-style-type: none"> <li>• General considerations &amp; anterior pituitary hormones</li> <li>• Insulin &amp; other anti-diabetic drugs &amp; Therapy of Diabetes Mellitus, Glucagons</li> <li>• Thyroid hormone &amp; anti-thyroid drugs</li> <li>• Drugs and hormones affecting calcium metabolism</li> <li>• Corticosteroids</li> <li>• Sex Hormones &amp; Related drugs</li> <li>• Drugs acting on Uterus &amp; in pregnancy</li> </ul>
<p><b>Chemotherapy</b>  <b>PH 1.42 to PH 1.48</b></p> <p><b>Anti cancer agents&amp; Immunomodulators PH 1.49</b></p>	<ul style="list-style-type: none"> <li>• General considerations</li> <li>• Individual groups of anti-infective agents             <ul style="list-style-type: none"> <li>○ Beta-lactams</li> <li>○ Aminoglycosides</li> <li>○ Macrolides</li> <li>○ Broad spectrum antibiotics</li> </ul> </li> <li>• Concepts of Disinfection &amp; anti-sepsis</li> <li>• Therapy of specific infections             <ul style="list-style-type: none"> <li>○ Tuberculosis</li> <li>○ Malaria</li> <li>○ Amoebiasis</li> <li>○ Other protozoal infections</li> </ul> </li> </ul>

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	<ul style="list-style-type: none"> <li>○ Helminthiasis</li> <li>○ Urinary tract Infections</li> <li>○ Sexually transmitted diseases</li> <li>○ Respiratory tract infections</li> <li>○ Ecto-parasitic skin infections</li> <li>● Anti-fungal agents</li> <li>● Anti-viral agents</li> <li>● Principles of cancer chemotherapy</li> </ul>
<b>Kidney</b> Diuretics and antidiuretics <b>PH 1.24</b>	<ul style="list-style-type: none"> <li>● Diuretics and anti-diuretics</li> </ul>
Drugs to treat skin disorders, Drugs to treat ocular diseases, <b>PH 1.57,PH 1.58,</b>	
<b>Miscellaneous topics-Immunomodulators</b> <b>PH 1.50</b> Vitamins, Vaccines, NHP, Nutraceuticals, Antiseptics and disinfectants, PH 1.54, PH 1.55, PH 1.61,PH 1.62	
AETCOM Module numbers	2.3,2.6,2.8

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# Pharmacology

## Prelim UG Practical Exam 100 Marks

Spotting	20
Prescription/P Drug	15
Criticism/Prescription Audit	10
ADR/FDC/DPL	10
Drip Setting	15
Grand Viva- 1	15
Grand Viva- 2	15
Total	100

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18/7/24

*Shah*  
28/07/24

*Shah*  
18/7/24

\*Certified Journal & Log book will be considered as an eligibility criteria

U.G.

# Theory Paper Format (Microbiology)

II MBBS.

## Curriculum

Paper 1 -

General Microbiology, Immunology,  
Cardiovascular infections,  
Gastrointestinal infections  
Hepatobiliary infections.

Paper 2 -

Skin & Subcutaneous infections,  
Respiratory tract infections,  
Central Nervous System infections  
Genitourinary infections  
Hospital acquired infections

## Practical Format (Microbiology)

Same as submitted before.

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**2106000102030101**  
**Examination February – March 2024**  
**SECOND MBBS**  
**MICROBIOLOGY ( PAPER - I ) - LEVEL 3**

[Time: Three Hours]

[Max. Marks: 100]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination : **SECOND MBBS**
  - b. Name of the Subject : **MICROBIOLOGY ( PAPER - I ) - LEVEL 3**
  - c. Subject Code No : **2106000102030101**
2. Sketch neat and labelled diagram wherever necessary with blue pen/pencil only.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.
5. Write heading of each question properly.
6. Write legibly.

Seat No:

--	--	--	--	--	--	--	--

Student's Signature

**SECTION – I**

(General Microbiology, Immunology, Infections of Blood stream & cardiovascular system, Gastro intestinal tract & Hepatobiliary system)

**Q.1 Multiple choice questions (MCQs).**

**1\*20=20**

1. Most common protozoan parasite responsible for Steatorrhea is:
  - A. Giardia lamblia
  - B. Entamoeba histolytica
  - C. Entamoeba coli
  - D. Enteromonas hominis
2. Test done to differentiate between Pathogenic and nonpathogenic strains of Staphylococcus aureus is
  - A. Oxidase test
  - B. Catalase test
  - C. Coagulase test
  - D. Glucose fermentation test
3. Dengue virus infection is transmitted by
  - A. Culex mosquito
  - B. Anopheles mosquito
  - C. Aedes aegypti
  - D. Tick

4. Infection with Plasmodium falciparum is suspected if the infected RBC is
- A. Normal in size
  - B. showing multiple infections
  - C. Both (A) and (B)
  - D. shows motile form inside the RBCs
5. Which of these techniques is not used for cultivation of viruses
- A. Inanimate culture media
  - B. Tissue culture
  - C. Animal inoculation
  - D. Embryonated egg
6. Rocky mountain spotted fever is due to
- A. R. rickettsii
  - B. R. typhi
  - C. R. prowazekii
  - D. R. conorii
7. IgE
- A. Protects body fluids
  - B. Protects body surfaces
  - C. Protects blood stream
  - D. Mediates reaginic hypersensitivity
8. Negri bodies of Rabies are
- A. Intracytoplasmic eosinophilic inclusions with basophilic inner granules
  - B. Intracytoplasmic basophilic inclusions with basophilic inner granules
  - C. Intracytoplasmic acidophilic inclusions with basophilic inner granules
  - D. None of the above
9. Transduction is a method of gene transfer from one bacteria to another by
- A. Passage of genetic material through sex pili
  - B. Direct cell to cell contact and protoplasmic fusion
  - C. Plasmids transfer
  - D. Cross infecting Bacteriophages

10. In Gram's staining " Gull wing" shape is seen in  
 A. *Yersinia pestis* B. *Vibrio cholerae*  
 C. *Acinetobacter* D. *Campylobacter*
11. CBNAAT is  
 A. Chip based nucleic acid amplification test  
 B. Cartridge based nucleic acid amplification test  
 C. Both (a) and (b)  
 D. None of the above
12. Production of germ tube within 2 hours serves as identification character for  
 A. *Ray fungus* B. *Cryptococcus neoformans*  
 C. *Rhizopus* D. *Candida albicans*
13. Which of the following parasites cause megaloblastic anemia  
 A. *Diphyllobothrium latum* B. *Taenia solium*  
 C. *Ancylostoma duodenale* D. *Echinococcus granulosus*
14. RA factor in Rheumatoid arthritis is a/an  
 A. Antigen B. Auto-antibody  
 C. Hapten D. Antibody
15. Graft between two individuals sharing same genetic constitution is referred to as  
 A. Allograft B. Isograft  
 C. Xenograft D. Autograft
16. Which of these enzyme is not found inside the core of the virus  
 A. DNA Polymerase B. Reverse transcriptase  
 C. Neuraminidase D. RNA Polymerase
17. Amastigote forms of *Leishmania donovani* are found in  
 A. The cells of Reticuloendothelial system  
 B. Red blood cells  
 C. Culture media  
 D. Digestive tract of insect vector
18. RAST detects \_\_\_\_\_ hypersensitivity reaction.  
 A. Type I B. Type II  
 C. Type III D. Type IV

19. In PCR, denaturation occurs at

A. 55°C

B. 72°C

C. 95°C

D. None of the above

20. Which of these is not a live attenuated vaccine

A. TAB

B. MMR

C. Sabin's vaccine

D. BCG

## SECTION - II

(General Microbiology, Immunology)

Q.2 Essay type question / clinical scenario based.

12

Enlist & Describe in Detail about methods of gene transfer and discuss the mechanisms of drug resistance in bacteria

Q.3 Short Note (any 4 out of 5)

7\*4=28

1. Mechanism of Bacterial Pathogenesis
2. Describe in detail the structure & Function of the Bacterial Cell wall & write methods of Demonstration of cell wall.
3. Write in detail about Immune complex mediated hypersensitivity reaction.
4. Classify immunity. Describe the various mechanism of innate/acquired immunity.
5. Draw the two common complement activation pathways and describe the importance of complement in health and disease.

## SECTION - III

(Infections of Blood stream & Cardiovascular system, Gastro intestinal tract & Hepatobiliary system)

Q.4 Essay type question / clinical scenario based.

12

Enumerate Hepatitis Viruses and their mode of transmission. Describe viral markers, Treatment & Prophylaxis of Hepatitis B Infection.

## Q.5 Short Note (any 4 out of 5)

1. A 35 year old male was admitted in causality with complain of severe colicky abdominal pain. Patient gave H/O of stool passage of blood and mucus with foul smell for last few days. Wet mount stool preparation showed motile protozoa with pseudopodia. On examination tenderness in right hypochondrium and mild hepatomegaly is found.

a. What is the most probable cause for this condition? 1

b. Write pathogenesis of this condition. 3

c. Write the details of diagnostic modalities of above condition. 3

2. A 25 year old man from urban area admitted in hospital presented with high fever, headache, and retro orbital pain, sever back pain for 5 days and bleeding nose today morning. On examination rash are seen on the body. Blood reports shows platelet count is 20,000/mm<sup>3</sup>.

a. What is the most probable cause for this condition? 1

b. Write pathogenesis of this condition. 3

c. Write the details of laboratory diagnosis of above condition. 3

3. Enumerate the nematodes infesting intestine. Describe the life cycle, laboratory diagnosis of any one of them.

4. Classify Rickettsia. Describe the etiology, pathogenesis, laboratory diagnosis of spotted fevers.

5. Rheumatic Fever

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**Examination Scheme of First MBBS**

1	2	3	4	5	6	7	8	9	10	11
Sr. No	Name of Subject	University Exam Theory Total Marks	University Exam Theory Total Marks Required for Passing	University Exam Practical Total Marks	University Exam Practical Total Marks Required for Passing	Internal Exam Theory Total Marks	Internal Exam Theory Total Marks Required for Passing	Internal Exam Practical Total Marks	Internal Exam Practical Total Marks Required for Passing	Subject wise additional passing head at Internal & University Examination
1	Anatomy Paper-I	100				500	200	500	200	500 Marks Out of 1000 (no. 7+9=11)
	Anatomy Paper-II	100								
	Anatomy Paper I and Paper II together	200	80	100	40					150 Marks Out of 300 (no.3 +5=11)
2	Physiology Paper-I	100				500	200	500	200	500 Marks Out of 1000 (no. 7+9=11)
	Physiology Paper-II	100								
	Physiology Paper I and Paper II together	200	80	100	40					150 Marks Out of 300 (no.3 +5=11)
3	Biochemistry Paper-I	100				500	200	500	200	500 Marks Out of 1000 (no. 7+9=11)
	Biochemistry Paper-II	100								
	Biochemistry Paper I and Paper II together	200	80	100	40					150 Marks Out of 300 (no.3 +5=11)
		600	240	300	120	1500	600	1500	600	

**Other Passing Heads**

University Theory: 600 (Passing marks 240 out of 600)

University Practical: 300 (Passing marks 120 out of 300)

Total: 900 (Passing marks 450 out of 900)

Note:

Marks obtained from internal assessment are to be shown in the mark sheet separately but should not be counted for awarding class, medal, prize, rank or for any other purpose than eligibility for appearing in University Examination.

\* No Grace Marks for Passing in University Examination

**Examination Scheme of Third MBBS Part-1**

1	2	3	4	5	6	7	8	9	10	11
Sr. No	Name of Subject	University Exam Theory Total Marks	University Exam Theory Total Marks Required for Passing	University Exam Practical Total Marks	University Exam Practical Total Marks Required for Passing	Internal Exam Theory Total Marks	Internal Exam Theory Total Marks Required for Passing	Internal Exam Practical Total Marks	Internal Exam Practical Total Marks Required for Passing	Subject wise additional passing head at Internal & University Examination
1	Forensic Medicine					375	150	500	200	437.5 Marks Out of 875 (no. 7+9=11)
		100	40	50	20					75 Marks Out of 150 (no.3 +5=11)
2	Community Medicine Paper-I	100				500	200	500	200	500 Marks Out of 1000 (no. 7+9=11)
	Community Medicine Paper-II	100		100	40					
	Community Medicine Paper I and Paper II together	200	80							150 Marks Out of 300 (no.3 +5=11)
		300	120	150	60					

**Other Passing Heads**

University Theory: 300 (Passing marks 120 out of 300)

University Practical: 150 (Passing marks 60 out of 150)

Total: 450 (Passing marks 225 out of 450)

Note:

Marks obtained from internal assessment are to be shown in the mark sheet separately but should not be counted for awarding class, medal, prize, rank or for any other purpose than eligibility for appearing in University Examination.

\* No Grace Marks for Passing in University Examination

**Examination Scheme of Third MBBS Part-2**

1	2	3	4	5	6	7	8	9	10	11
Sr. No	Name of Subject	University Exam Theory Total Marks	University Exam Theory Total Marks Required for Passing	University Exam Practical Total Marks	University Exam Practical Total Marks Required for Passing	Internal Exam Theory Total Marks	Internal Exam Theory Total Marks Required for Passing	Internal Exam Practical Total Marks	Internal Exam Practical Total Marks Required for Passing	Subject wise additional passing head at Internal & University Examination
1	General Medicine Paper-I	100		200	80	500	200	650	260	575 Marks Out of 1150 (no. 7+9=11)
	General Medicine Paper-II	100								
	General Medicine Paper I and Paper II together	200	80							
2	General Surgery Paper-I	100		200	80	500	200	650	260	575 Marks Out of 1150 (no. 7+9=11)
	General Surgery Paper-II	100								
	General Surgery Paper I and Paper II together	200	80							
3	Obstetric & Gynecology Paper-I	100		200	80	500	200	650	260	575 Marks Out of 1150 (no. 7+9=11)
	Obstetric & Gynecology Paper-II	100								
	Obstetric & Gynecology Paper I and Paper II together	200	80							
4	Paediatrics			100	40	375	150	500	200	437.5 Marks Out of 875 (no. 7+9=11)
		100	40							
5	Ophthalmology			100	40	375	150	500	200	437.5 Marks Out of 875 (no. 7+9=11)
		100	40							
6	Otorhinolaryngology (ENT)			100	40	375	150	500	200	437.5 Marks Out of 875 (no. 7+9=11)
		100	40							
		900	360							

**Other Passing Heads**

University Theory: 900 (Passing marks 360 out of 900)

University Practical: 900 (Passing marks 360 out of 900)

Total: 1800 (Passing marks 900 out of 1800)

Note:

Marks obtained from internal assessment are to be shown in the mark sheet separately but should not be counted for awarding class, medal, prize, rank or for any other purpose than eligibility for appearing in University Examination.

\* No Grace Marks for Passing in University Examination

Theory

Name of Institute :

**DEPARTMENT OF Pathology/Pharmacology/Microbiology**

Faculty : MBBS

Year/Phase- II

S.No.	Roll No.	Name of Student	Formative Assessment Theory			Continuous Internal assessment Theory					Total	
			1st PCT Theory	2nd PCT Theory	Prelims Theory (Paper I & II)	Home Assignment	Continuous Class Test (LMS)	Seminar	Museum study	Library assignments		Attendance Theory
100	100	200	15	30	15	15	15	10	500			

Professor & Head

Department of \_\_\_\_\_

Name of Institute

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P

H2/E/181  
P

H2/E/181  
P

Practical

Name of Institute :												
Department of Pathology/Pharmacology/Microbiology												
Faculty : MBBS		Year/Phase- II						Date : dd/mm/yyyy				
			Formative Assessment			Continuous Internal Assessment (Practical)						
S.No.	Roll No.	Name of Student	1st PCT Practical/First Ward Leaving Examination	2nd PCT Practical /Second Ward Leaving Examination	Prelims Practical	Log book (150)				Journal (Record book/ Portfolio)	Attendance (Practical)	Total
						Certifiable skill based competencies (Through OSPE/OSCE/Spets/Exercise/ Other)	AETCOM competencies	SVL Lab activity	Research			

Professor & Head  
 Department of \_\_\_\_\_  
 Name of Institute \_\_\_\_\_

H2/F/81

H2/F/81  
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H2/F/81  
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P6

## M.D Course 2024 (Pharmacology)

<u>Paper</u>	<u>Course</u>
Paper-1	Basic sciences as applied to pharmacology
Paper-2	Systemic pharmacology
Paper-3	Clinical pharmacology, experimentation, research, biostatistics and education
Paper-4	Recent advances in the pharmacology

### PAPER PATTERN M.D. EXAM 2024 (Pharmacology)

<u>Question</u>	<u>Description</u>	<u>Max Marks</u>
Q1 . Long question	No choice	40 x 1 = 40
Q2. Short essay type	No choice	15 x 2 =30
Q3. Short note	No choice	10 X 3 =30

*Chauhan*


**Prof. And Head  
Department of Pharmacology  
Govt. Medical College, Surat.**


*Atsai*

**Professor & Head  
Pharmacology Deptt  
SMIMER**

MD (Pharmacology) Practical Exam -2024  
Dept of Pharmacology, Government Medical College, Surat.  
DISTRIBUTION OF PRACTICAL MARKS -

	Particular		Min Marks				
Q 1	Long Case: Bioassay	100					
Q 2(A)	Exercise on experimental model to demonstrate effects of drugs / interpretation of results on small animals	50					
Q 2(B)	Pharmacokinetic model	50					
Q.3	Protocol writing for a given scenario	50					
Q 4	Critical appraisal of research paper/ part of paper/ abstract	30					
Q.5	Thesis presentation & Viva	20					
	<b>Total of (1 to 6)</b>	<b>300</b>					
Q.7	Viva Voce	100					
	<b>Grand Total (1 to 7)</b>	<b>400</b>	<b>200</b>				

  
**Prof. And Head**  
**Department of Pharmacology**  
**Govt. Medical College, Surat.**

  
**Professor & Head**  
**Pharmacology Deptt.**  
**SMIMER**

# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

Sr. No.:

SEAT NO.

Certificate showing the number of marks obtained by

Shri/Kum/Smt.

in each head of passing at the P.G. Medical M.D. (Pharmacology) Examination held in 2024

Name of College: Government Medical College, Surat

	Theory				Total of Theory Marks	Practical					Remarks	
	Paper I	Paper II	Paper III	Paper IV		Clinical / Practical	Thesis	Total (Clinical / Practical & Thesis)	Viva Voce	Total of (Clinical / Practical and Viva Voce)		Total of Theory and Practical
<b>Maximum Marks</b>	100	100	100	100	400	280	20	300	100	400	800	
<b>Minimum Marks</b>	40	40	40	40	200					200		
<b>Marks Obtained</b>												

Entered By \_\_\_\_\_ Checked by \_\_\_\_\_

N.B.: No change in any entry is to be made except by the authority issuing the certificate.  
Infringement of this instruction will be severely dealt with.

- No grass marks for passing

*grace*

REGISTRAR

*Chau*

**Prof. And Head  
Department of Pharmacology  
Govt. Medical College, Surat.**

*Adesai*

**Professor & Head  
Pharmacology Deptt  
SMIMER**

To  
The Controller of examinations  
VNSGU  
Surat

Date :- 30-07-2024

Subject :- Details of MD Pharmacology Examination

Respected Sir,

Kindly find enclosed herewith the details of MD Examination (Pharmacology) under the headings of MD Pharmacology Course (Paperwise distribution), Paper pattern, Practical pattern with marks distribution, MD Pharmacology Marksheet.


Kindly do the needful.

Sincerely

Dr Chetan Acharya  
Prof & Head  
Pharmacology Department.  
GMCS  
Surat



**Prof. And Head  
Department of Pharmacology  
Govt. Medical College, Surat.**

  
Dr Anupama Desai  
Prof & Head  
Pharmacology Department  
SMIMER  
Surat

**Professor & Head  
Pharmacology Deptt  
SMIMER**

# Theory Paper Format (Microbiology)

MD .

Same as before .

## Practical Exam Format . MD - Microbiology

### Practical Exercises (Total Marks 300)

Bacteriology Long case - 80

Bacteriology Short case - 40 } 120 .

Serology / Immunology - 30

Virology Exercise - 30 .

Mycology Exercise - 30 .

Parasitology Exercise - 30 .

Pedagogy - 10 .

Slides - 20 .

Animal - 10 .

Dissertation / Thesis - 20 .

Viva-voce : <sup>total</sup> 100 marks .

(including 10 marks for dissertation viva)

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18/07/24

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6.2 Without prejudice to the above, the concerned University and medical institutions under them shall ensure that proper records of the work be maintained so that they form the basis of objective, efficient and transparent internal assessment of scholars.

Provided further that, these maintained and well-classified documents shall be made available for consultation at all times, particularly for the purposes of assessment of the medical college either by the concerned University or NMC.

6.3 It shall be the constant endeavour of the concerned University to constantly develop strategies for optimal utilization of evolving technology by the faculty, medical education department and scholars during the period of training at the post-graduation level.

6.4 It shall be the constant endeavour of the concerned University to maximize the use of digital technology for conducting examinations and issuance of Degrees/Diploma and other certificates in digital mode which should be available on the Digi locker platform. All the Universities should make all-out efforts to start the issuance of Certificates in digital mode on the Digi locker platform as early as possible.

## CHAPTER VII

### DEPARTMENT, UNITS, FACULTY AND SENIOR RESIDENTS

7.1 **Department:** The name of the Department will be as per the name of the Speciality subject (qualification) (Annexure-1, Annexure-2). Each Department will be headed by a Professor.

**Unit:** All Departments with inpatient beds will have unit structure (Units), if applicable.

**Faculty:** Professor, Associate Professor and Assistant Professor will be considered as faculty and they will be full time. Appointment and promotion of faculty in various teaching Specialities imparting post-graduate medical education in medical institutions, falling within the purview of the National Medical Commission, has to be in accordance with the norms of Teachers Eligibility Qualifications in Medical Institutions Regulations, 2022. The number of faculty requirement and the number of post-graduate students registrable under each faculty will be as per Post-Graduate Medical Education Regulations, 2023 and PGMSR-23.

In Government institutions, where faculty holding post of Additional Professor fulfilling all the requirements to become Professor will be considered as Professor for all purposes. Similarly, in Government institutions, where faculty holding post of Reader, fulfilling all the requirements to become Associate Professor will be considered as Associate Professor for all purposes.

**Senior Residents and Junior Residents:** Senior Resident shall have post-graduate degree qualification in the respective broad- speciality. Post-graduate students pursuing super-speciality courses will also be called as senior residents. Students pursuing broad-speciality courses will be called as junior residents.

Post-graduate courses under any other body like the National Board of Examinations in Medical Sciences (NBEMS), etc. are not permissible against the very same units, teaching personnel and infrastructure for courses under these regulations.

7.2 The faculty of a medical college/institution shall assist the National Medical Commission/ Boards whenever required for the purpose of assessment and as experts, etc.

7.3 The position of Dean/Director/Principal of Medical College/Institution should be held by a person possessing recognised post-graduate medical degree from a recognised/accredited institution with a minimum of ten years teaching experience as Professor/Associate Professor in a Medical College/ Institution. out of which at least five years should be as Professor in the Department. Appointment to these posts shall be made on seniority-cum-merit basis. The Dean/Director/Principal of Medical Institution shall not hold the post of Head of the Department.

7.4 The Medical Superintendent of the affiliated teaching hospital shall possess a recognised post-graduate medical degree from a recognised/accredited institution with a minimum of ten years teaching experience as Professor /Associate Professor in the relevant departments of the Hospital, out of which at least five years should be as Professor. Appointment to these posts shall be made on seniority-cum-merit basis. Medical Superintendent shall not occupy the position of the Head of the Department. However, he can head the unit.

## CHAPTER VIII

### EXAMINATIONS

8.1 **Examinations:** The medical college/institution will conduct the Formative Assessment (examination) and the University will conduct the Summative Assessment (examination).

Both Formative Assessment (examination) and Summative Assessment (examination). shall consist of Theory, Clinical/Practical and Viva Voce.

The university shall conduct not more than two examinations in a year, for any subject, with an interval of not less than 4 and not more than 8 months between the two examinations.

## 8.2 Examiners:

- a. The examiner (both internal and external) for the post-graduate examination in Broad and Super Specialties shall have three years' experience as recognised Post-graduate Guide in the concerned subject.
- b. The minimum number of examiners for post-graduate examination shall be four. Out of which, at least two shall be external examiners and least one of them shall be from different university outside the state.
- c. An examiner shall not be appointed for more than two consecutive regular examinations for the same institution.

## 8.3 Methodology

**A. Broad Specialties: Doctor of Medicine (M.D.)/Master of Surgery (M.S.):** M.D./M.S. examinations, in any subject shall consist of theory papers, and clinical/practical and viva voce examinations.

- a. **Theory:** The theory examination (both formative and summative) may be of descriptive answer of a question type, Multiple Choice Question (MCQ) type or mix of both types. Theory examination for summative examination shall be of four theory papers. The first and the fourth paper shall be on basic medical science and recent advances, respectively.

The theory examination shall be held well in advance before the clinical and practical examination.

### b. Clinical/Practical and viva voce

- i. Clinical examination for the subjects in clinical sciences shall be conducted to test the knowledge and competence of the candidates for undertaking independent work as a consultant/specialist/teacher, for which candidates shall be examined for one long case and two short cases.
- ii. Practical examination for other subjects shall be conducted to test the knowledge and competence of the candidates for making valid and relevant observations based on the experimental/ laboratory studies and his ability to perform such studies as are relevant to his subject.
- iii. The viva voce examination shall be thorough and shall aim at assessing the candidate's knowledge and competence about the subject, investigative procedures, therapeutic technique and other aspects of the Speciality.
- iv. Clinical/practical examination shall include Objective Structured Clinical Examination (OSCE).

**B. Super Specialties: Doctorate of Medicine (D.M.)/Master of Chirurgie (M.Ch.):** The Examination consists of theory and clinical/practical and viva voce.

- a. **Theory:** The theory examination (both formative and summative) may be of descriptive answer of a question type, Multiple Choice Question (MCQ) type or mix of both types. Theory examination for summative examination shall be of four theory papers. The first and the fourth paper shall be on basic medical science and recent advances, respectively.

The theory examination shall be held well in advance before the clinical and practical examination.

### b. Clinical/Practical and viva voce:

- i. Clinical examination for the subjects in clinical sciences shall be conducted to test the knowledge and competence of the candidates for undertaking independent work as a consultant/specialist/teacher, for which candidates shall be examined for one long case and two short cases.
- ii. Practical examination may consist of carrying out special investigative techniques for Diagnosis and Therapy. M.Ch. candidates shall also be examined in surgical procedures. Viva voce examination shall be comprehensive enough to test the candidate's overall knowledge and competence about the subject, investigative procedures, therapeutic technique and other aspects of the Speciality.
- iii. Clinical/practical examination shall include Objective Structured Clinical Examination (OSCE).

**C. Post-graduate Diploma:** Diploma examination in any subject shall consist of theory and practical/clinical and viva voce.

- a. **Theory:** There shall be three Theory papers. The first paper shall be on basic medical sciences. The theory examination will be held well in advance before the clinical examination.
- b. **Clinical/Practical and viva voce:** Clinical examination for the subject in clinical Science shall be conducted to test/aimed at assessing the knowledge and competence of the candidate for undertaking

independent work as a specialist for which a candidate shall examine a minimum of one long case and two short cases.

The viva voce examination shall be thorough and shall aim at assessing the candidate's knowledge and competence about the subject, investigative procedures, therapeutic technique and other aspects of the Speciality.

Clinical/practical examination shall include Objective Structured Clinical Examination (OSCE).

#### 8.4 Valuation:

- a. All the teachers of the other colleges of the concerned University or other Universities, who are eligible to be post-graduate examiners, can perform the valuation of the answerscripts.
- b. All the answer scripts shall be subjected for two valuations by the concerned University. The average of the total marks awarded by the two valuers for the paper, which is rounded off to the nearest integer (whole number), shall be considered for computation of the results. All the answer scripts, where the difference between two valuations is 15% and more of the total marks prescribed for the paper, shall be subjected to third valuation. The average of the best two total marks, awarded by the three evaluators for the paper, rounded off to the nearest integer (whole number), shall be considered for final computation of the results.
- c. After the computation and declaration of the results, under no circumstances, revaluation is permitted.
- d. All the Health Universities/Institutions imparting post-graduate courses shall implement digital valuation.

#### CRITERIA FOR EVALUATION OF M.S./M.D./M.Ch./DM COURSES

S.No.	Description	M.S./M.D./M.Ch./DM Courses
1	<b>THEORY</b>	
	No. of Theory Papers	4
	Marks for each Theory Paper	100
	Total marks for Theory Paper	400
	Passing Minimum for Theory	200/400 (40% minimum in each paper)
2	<b>PRACTICAL/CLINICAL</b>	300
3	<b>VIVA VOCE</b>	100
	Passing minimum for Practical/Clinical including Viva voce	200/400
The candidate shall secure not less than 50% marks in each head of passing which shall include		
(1) Theory – aggregate 50% (In addition, in each Theory paper a candidate has to secure minimum of 40%)		
(2) Practical/Clinical and Viva voce - aggregate 50%		
(3) If any candidate fails even under one head, he/she has to re-appear for both Theory and Practical/Clinical and Viva voce examination.		
(4) Five per cent of mark of total marks of Clinical/Practical and Viva Voce marks (20 marks) will be of dissertation/thesis and it will be part of clinical/practical examination marks. External examiner outside the state will evaluate dissertation/ thesis and take viva voce on it and marks will be given on quality of dissertation/thesis and performance on its viva voce.		
(5) No grace mark is permitted in post-graduate examination either for theory or for practical.		

#### CRITERIA FOR EVALUATION OF P.G. DIPLOMA COURSES

S. No.	Description	P.G. Diploma Courses
1	<b>THEORY</b>	
	No. of Theory Papers	3
	Marks for each Theory Paper	100
	Total marks for Theory Paper	300
	Passing Minimum for Theory	150/300 (40% minimum in each paper)
2	<b>PRACTICAL/CLINICAL</b>	200
3	<b>Viva voce</b>	100

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18/7/24

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**M.D. Course 2024**

**IMMUNOHEMATOLOGY AND BLOOD TRANSFUSION**

**Theory papers**

Paper	Course
Paper-I	Basic applied aspects related to Transfusion Medicine (including Haematology and Immunology)
Paper-II	Immunohaematology, immunogenetics, and applied serology( Including Molecular biology and HLA)
Paper-III	Blood donor organization, Technology of components, clinical hemotherapy
Paper-IV	Recent advances & technology

**PAPER PATTERN M.D.EXAM 2024**

**(IMMUNOHEMATOLOGY AND BLOOD TRANSFUSION)**

(3 hours ,100 marks) (Four Papers)

Question	Description of question	Marks
1	Long question (no option single question compulsory)	25 Marks
2	Long question (no option single question compulsory)	25 Marks
3	Write short notes (with one option & 5*10 Marks )	50 Marks
	Total	100 Marks

*hcc*

*Shah  
Chairman  
BOS*

*Prof. and Head  
Immunohaematology and Transfusion  
Government Medical College, Surat.*

# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

Sr. No. :

SEAT NO.

Certificate showing the number of marks obtained by

Shri/Kum/Smt.

in each head of passing at the P.G. Medical M.D. (IMMUNOHEMATOLOGY AND BLOOD TRANSFUSION) Examination held in 2024

Name of College: Government Medical College, Surat

	Theory				Total of Theory Marks	Practical				Total of Theory and Practical	Remarks	
	Paper I	Paper II	Paper III	Paper IV		Clinical / Practical	Thesis	Total (Clinical / Practical & Thesis)	Viva Voce			Total of (Clinical / Practical and Viva Voce)
<b>Maximum Marks</b>	100	100	100	100	400	280	20	300	100	400	800	
<b>Minimum Marks</b>	40	40	40	40	200					200		
<b>Marks Obtained</b>												

Entered By \_\_\_\_\_ Checked by \_\_\_\_\_

N.B.: No change in any entry is to be made except by the authority issuing the certificate.  
Infringement of this instruction will be severely dealt with.

Passing Heads

University Theory: 400 (Passing marks 200 out of 400)

University Practical: 400 (Passing marks 200 out of 400)

Total: 800 (Passing marks 400 out of 800)

- No grace marks for passing in University Examination

REGISTRAR

*Sub*

*Chairman*

*Bos*

*Prof. and Head*  
Immunohematology & Blood Transfusion  
Government Medical College, Surat.

**MD ( IMMUNOHEMATOLOGY AND BLOOD TRANSFUSION ) Practical Exam -2024**

Department of IMMUNOHEMATOLOGY AND BLOOD TRANSFUSION, Government Medical College, Surat.  
DISTRIBUTION OF PRACTICAL MARKS -

	Particular		Min Marks
Q 1	Long Case (immuno-hematology)	80	200
Q 2	Short Case (apheresis / whole blood donation)	50	
Q 3	Short case (Component)	50	
Q 4	Short case (TTI)	50	
Q 5	Two cases (clinical & administrative)	30	
Q 6	Spots(10)	20	
Q 7	Thesis	20	
	<b>Total of (1 to 7)</b>	<b>300</b>	
Q 8	Viva Voce	100	
	<b>Grand Total (1 to 8)</b>	<b>400</b>	

*lol*

*Chairman  
BTS*

Prof. and Head  
Immunohematology & Blood Transfusion  
Government Medical College, Surat.

# PATHOLOGY PG MD THEORY EXAMINATION

## PAPER PATTERN M.D. EXAM 2024 (PATHOLOGY)

(3 hours 100 marks) (4 theory papers)

Question	Description of question	Marks
1	Long answer question	20 Marks
2	Long answer question	20 Marks
3	Short answer question (6*10 Marks)	60 Marks
4	Total	100 Marks

## M.D. Course – 2024 (PATHOLOGY)

### Theory Examination – 4 theory papers

Paper	Course
Paper I	Basic sciences as applied to pathology (general pathology, pathophysiology, immunopathology and molecular biology)
Paper II	Systemic pathology – (Surgical and Cytopathology)
Paper III	Haematology, transfusion medicine and laboratory medicine including instrumentation and quality control
Paper IV	Recent advances in the pathology.

*fnb*  
(Dr. R. N. Hathi) *fnb*  
i/c Professor & Head, Pathology  
A. M. C. Surat

*JR*  
(Professor  
Pathology  
SMIMER.)

*Shah*  
Chairman  
BOS

## PATHOLOGY PG MD PRACTICAL EXAMINATION

### Pattern:

	Marks
Practical exercise	300
Viva-voce	100
Total	400
Passing	200/400

*ful*  
(Dr. R. N. Hathibhai)  
H/O Professor & Head  
Pathology,  
G.M.C. Surat

*J*  
Professor  
Pathology  
SMIMER

*Dhalu*  
Chairman  
BOS

## PATHOLOGY PG MD PRACTICAL EXAMINATION

Mark distribution of practical exercise (400 Marks)

<b>PRACTICAL EXERCISE</b>	<b>280 Marks</b>
Clinical case	20
Clinical urine exercise	15
Biochemistry exercise	15
Haemogram	15
Haematology exercise	15
Blood bank/ Serology exercise (OSPE)	10
Morbid anatomy grossing	20
Histology technique exercise	10
Spotting basic sciences	10
Cytology / Haematology slides	50
Histopathology slides	100
<b>THESIS EVALUATION</b>	<b>20 Marks</b>
<b>TOTAL (PRACTICAL+THESIS)</b>	<b>300 Marks</b>
<b>VIVA-VOCE</b>	<b>100 Marks</b>
<b>Grand total</b>	<b>400 Marks</b>

*fnj*  
(Dr. R. N. Hattila)  
Hc Professor & Head  
Pathology  
R.M.C. Surat

*Jz*  
(Professor  
Pathology  
SMIMER)

*anah*  
chairman  
BUS

# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

Sr. No. :

SEAT NO.

Certificate showing the number of marks obtained by

Shri/Kum/Smt.

in each head of passing at the P.G. Medical M.D. (Pathology) Examination held in 2024

Name of College:

	Theory				Total of Theory Marks	Practical					Remarks	
	Paper I	Paper II	Paper III	Paper IV		Clinical / Practical	Thesis	Total (Clinical / Practical & Thesis)	Viva Voce	Total of (Clinical / Practical and Viva Voce)		Total of Theory and Practical
<b>Maximum Marks</b>	100	100	100	100	400	280	20	300	100	400	800	
<b>Minimum Marks</b>	40	40	40	40	200					200		
<b>Marks Obtained</b>												

Entered By \_\_\_\_\_ Checked by \_\_\_\_\_

N.B.: No change in any entry is to be made except by the authority issuing the certificate.  
Infringement of this instruction will be severely dealt with.

Passing Heads

University Theory: 400 (Passing marks 200 out of 400)

University Practical: 400 (Passing marks 200 out of 400)

Total: 800 (Passing marks 400 out of 800)

- No grace marks for passing in University Examination

\_\_\_\_\_  
**REGISTRAR**

*for*  
(Dr. R. N. Hethila)  
H.C. Prof. & Head  
Pathology, A.M.C.,  
Surat

*Jr*  
(Professor  
Pathology  
SMIMER)

*Shah*  
Chairman  
BOS

## PATHOLOGY PG DCP THEORY EXAMINATION

PAPER PATTERN Diploma in Clinical Pathology (DCP) EXAM 2024 (PATHOLOGY)

(3 hours 100 marks) (3 theory papers)

Question	Description of question	Marks
1	Long answer question	20 Marks
2	Long answer question	20 Marks
3	Short answer question (6*10 Marks)	60 Marks
4	Total	100 Marks

Diploma in Clinical Pathology (DCP) Course – 2024 (PATHOLOGY)

Theory Examination – 3

theory papers

Paper	Course
Paper I	Basic medical sciences: General pathology and Microbiology including parasitology
Paper II	Systemic pathology , Cytopathology and Haematology
Paper III	Clinical pathology, Clinical biochemistry and blood banking

*R.N.H.*  
(Dr. R.N. Hathila)  
1/2 Professor & Head  
Pathology, AMC, Surat

*P.S.*  
(Professor  
Pathology  
SMIMER)

*Chairman*  
Chairman  
BOS

**PATHOLOGY PG Diploma in Clinical Pathology (DCP)  
PRACTICAL EXAMINATION**

**Pattern:**

	Marks
Exercise	200
Viva-voce	100
Total	300
Passing	150/300

*Rud*  
(Dr. R. N. Hathila)  
HC Professor & Head  
Pathology, AMC  
Surat

*As*  
(Professor  
Pathology  
SMIMER)

*Chal*  
chairman  
BOS

**PATHOLOGY PG Diploma in Clinical Pathology (DCP)  
PRACTICAL EXAMINATION**

Mark distribution of exercise (300 Marks)

<b>PRACTICAL EXERCISE</b>	<b>200 Marks</b>
Clinical case - discussion	10
Haematology exercise based on clinical case	20
Clinical pathology exercise (Urine examination)	15
Clinical biochemistry exercise based on case	10
Serology including blood bank exercise - OSPE	10
Grossing of organs	15
Histology technique (Tissue cutting and staining)	10
Microbiology exercise	30
Slides including histopathology, Cytology, Haematology	80
<b>VIVA-VOCE</b>	<b>100 Marks</b>
<b>Grand Total</b>	<b>300 Marks</b>

*Rub*  
(Dr. R. M. Hathila)  
i/c Professor & Head  
Pathology, AMC,  
Surat

*J*  
(Professor  
Pathology  
SMIMER)

*Chauhan*  
Chairman  
BOS

# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

Sr. No. :

SEAT NO.

Certificate showing the number of marks obtained by

Shri/Kum/Smt.

in each head of passing at the P.G. Medical Diploma in clinical Pathology (D.C.P.) Examination held in 2024

Name of College: Government Medical College, Surat

	Theory			Total of Theory Marks	Practical				Remarks
	Paper I	Paper II	Paper III		Clinical / Practical	Viva Voce	Total of (Clinical / Practical and Viva Voce)	Total of Theory and Practical	
<b>Maximum Marks</b>	100	100	100	300	200	100	300	600	
<b>Minimum Marks</b>	40	40	40	150			150		
<b>Marks Obtained</b>									

Entered By \_\_\_\_\_ Checked by \_\_\_\_\_

N.B.: No change in any entry is to be made except by the authority issuing the certificate.  
Infringement of this instruction will be severely dealt with.

- No grace marks for passing

\_\_\_\_\_  
REGISTRAR

*Rml*  
(Dr. R. N. Hathila)  
H.C Professor & Head  
Pathology, GMC,  
Surat

*Dr*  
(Professor  
Pathology  
SMIMER)

*Shah*  
Chairman  
BUS

## M.D. Course 2024 (Anatomy)

Paper	Course
Paper-I	Gross & applied anatomy of upper limb, lower limb, thorax & abdomen
Paper-II	Gross & applied anatomy of neuroanatomy & head-neck
Paper-III	General and systemic histology, General & systemic embryology and General anatomy
Paper-IV	Recent advances in anatomy, Comparative anatomy, Anthropology, Genetics, Radio-imaging, Microscopy, Museum techniques

### PAPER PATTERN M.D.EXAM 2024(Anatomy)

(3 hours 100 marks) (Four Papers)

Question	Description of question	Marks
1	Long question (no option single question compulsory)	20 Marks
2	Long question (no option single question compulsory)	20 Marks
3	Long question (no option single question compulsory)	20 Marks
4	Write short notes on (4*10 Marks )	40 marks
	Total	100 Marks

MD (Anatomy) Practical Exam - 2024

DISTRIBUTION OF PRACTICAL MARKS  
( As per PGMER-2023)

	Particular	Marks	Min Marks				
Q1	Dissection	100					
Q2	Histology slide staining & slide viva	60					
Q3	Embryology models and viva	40					
Q4	Microteaching	20					
Q5	Genetics charts and viva	20					
Q6	Surface anatomy	20					
Q7	Radiological anatomy	20					
Q8	Thesis- viva	20					
	<b>Total of (1 to 8)</b>	<b>300</b>					
Q9	Viva Voce	100					
	<b>Grand Total (1 to 9)</b>	<b>400</b>	200				

# MD Physiology

## *Syllabus*

Course contents:

### **A: Cognitive domain**

**Paper-I: *General and Cellular Physiology including Genetic Basis and Historical perspectives:***

1. Physiology of cell, various cellular mechanisms and genetic control mechanisms.
2. Various principles of Physics and Physical Chemistry involved in physiological phenomenon e.g. haemo-dynamics, bio-electrical potentials, body fluids, methods of measurements.
3. History of Physiology, Noebl laureates and discoveries.
4. Biostatistics, Biophysics, Biochemistry, Micro-anatomy.
5. Growth and Development including aging.
6. Excretion, pH, water and electrolyte balance.
7. Comparative Animal Physiology

**Paper-II: *Systemic Physiology (system providing transport, nutrition and energy) including comparative Physiology.***

1. Blood and Immunity.
2. Cardiovascular System.
3. Respiratory System.
4. Gastro- Intestinal Tract (GIT) and dietary requirements.

# MD Physiology

## **Paper-III: *Systemic Physiology (system concerned with procreation, regulation and neural control)***

1. Nerve-Muscle Physiology including muscle mechanics
2. Endocrine Physiology
3. Nervous System (Central, peripheral and autonomic)
4. Special Senses
5. Reproduction & family planning/fetal & neonatal Physiology

## **Paper-IV: *Applied Physiology including recent advances***

1. Recent advances relevant to Physiology
2. Patho-physiology pertaining to systemic Physiology
3. Physiological basis of various clinical investigation tests
4. Interaction of human body in ambient environment- high altitude, space and deep sea
5. Exercise & Sports physiology
6. Transgender Physiology
7. Integrated Physiology
8. Yoga and Meditation
9. Social responsibilities of physiologists
10. Application of Artificial Intelligence in Physiology

# BAPICM Biochemistry

## Theory Topic Distribution

### Paper I

Biomolecules, cell biology, biochemical techniques, biostatistics and research methodology, basics of medical education in teaching and assessment of biochemistry

### Paper II

Enzymes, bioenergetics, biological oxidation, intermediary metabolism and regulation, inborn errors of metabolism and nutrition

### Paper III

Molecular biology, molecular and genetic aspects of cancer, immunology and effects of environmental pollutants on the body

### Paper IV

Clinical biochemistry and molecular diagnostics related to different body systems/organs, endocrinology, and recent advances in biochemistry

## Theory Paper style (for all papers)

**(Max Marks 100)**

Q1. Write an essay

25 marks

Q2. Write notes

5x5=25 marks

Q3. Write notes

5x5=25 marks

Q4. Write notes

5x5=25 marks

## Practical Examination

1. Clinical / Paper case

100 marks

2. molecular biology technique

050 marks

3. immunology technique

050 marks

4. OSPE, AETCOM

050 marks

5. Evaluation of laboratory management skills

050 marks

6. Thesis

020 marks

**Total Practical**

**300 marks**

**Viva voce**

**100 marks**

# RADIODIAGNOSIS →

## THEORY EXAMINATION:

The theory examination comprises of four papers.

The paper wise distribution shall be as follows:

- **Paper I:** Basic sciences related to Radiology (consists of Anatomy, Pathology, Basic and Radiation Physics, Imaging Techniques and Film Processing).
- **Paper II:** Chest, CVS, CNS (including Head & Neck), Eye, ENT, Musculoskeletal, Paediatric radiology and Mammography.
- **Paper III:** Abdominal imaging including Gastrointestinal, Genitourinary, Hepatobiliary, Endocrine and Metabolic, Obstetrics & Gynaecology and Interventional Radiology.
- **Paper IV:** Recent advances, Nuclear Medicine, Radiology related to clinical specialities.

Total marks:  $100 \times 4 = 400$

Each paper consists of:

- One Long Question: 20 marks
- Two Long Questions (15+15): 30 marks
- Five Short Notes (1 question – 8 marks) (8 x 5): 40 marks
- Five short answer questions (1 question – 2 marks) (2 x 5): 10 marks

# RADIODIAGNOSIS

## PRACTICAL EXAMINATION:

Total marks: 400

The practical examination comprises of:

- One Long case; 100 marks
- Two Short cases (40+40): 80 marks
- Dissertation viva: 20 marks
- Spots (30 x 2): 60marks
- USG performance: 40 marks
- Table viva-1: Radiation physics + Radiation protection (AERB and PCPNDT): 40 marks
- Table viva-2: Interventional Radiology/Contrast media/Rapid fire with film reading session: 40 marks
- OSCE (Objective Structured Clinical Exam) – from table 1 and table 2: 20 marks

**RESPIRATORY MEDICINE P.G. EXAMINATION (2024-25) PAPER**  
**PATTERNS AND MARKS DISTRIBUTION**

**TOTAL EXAMINATION MARKS: THEORY (400) + PRACTICAL (400) = 800**

**THEORY EXAMINATION: (100 MARKS each) (TOTAL MARKS = 400)**

**Paper I:** Tuberculosis and basic sciences;

**Paper II:** Clinical pulmonary medicine including medical emergencies;

**Paper III:** Clinical pulmonary medicine including critical care medicine;

**Paper IV:** Recent advances in pulmonary medicine, and research methodology.


**PROFORMA FOR THEORY PAPER :**

QUESTION 1	Full Question (1 Question)	20 MARKS
QUESTION 2	Full Question (1 Question)	20 MARKS
QUESTION 3	Full Question (1 Question)	20 MARKS
QUESTION 4	Full Question (1 Question)	20 MARKS
QUESTION 5	Short Notes (4 Questions)	20 MARKS

**PRACTICAL EXAMINATION : (TOTAL MARKS = 400)**

	Marks
Long case (1 case)	150
Short case (2 cases)	120 (60+60)
OSCE	10
Dissertation Viva	20
Table viva	100
<b>Total</b>	<b>400</b>

  
**Professor & Head**  
**Radiodiagnosis and Imaging Dept**  
**Govt. Medical College &**  
**New Civil Hospital, SURAT.**

  
**PROFESSOR AND HEAD**  
**DEPARTMENT OF RESPIRATORY MEDICINE**  
**GOVERNMENT MEDICAL COLLEGE, SURAT.**

**DR. PARUL VADGAMA**  
**Professor & Head**  
**Dept. of Pulmonary Medicine**  
**New Civil Hospital, Surat**

DR. PARUL VADGAMA  
Professor & Head  
Dept. of Pulmonary Medicine  
New Civil Hospital, Surat

Professor & Head  
Respiratory and Critical Care  
Govt. Medical College  
New Civil Hospital, SURAT


## M.D. Course 2024 (Psychiatry)


Paper	Course
Paper-I	Basic Sciences Related to Psychiatry
Paper-II	General Adult Psychiatry and related
Paper-III	Psychiatry Sub-specialities – Child & Adolescent, Geriatric, Community, Deaddiction, any other
Paper-IV	Recent Advances including Liaison Psychiatry, Forensic Psychiatry

## PAPER PATTERN M.D. EXAM 2024 (Psychiatry)

(3 hours 100 marks) (Four Papers)

Question	Description of question	Marks
1	Long question (no option - single question - compulsory)	30 Marks
2	Write Short notes on (no options – two questions – compulsory)	40 Marks
3	Write short notes on (4*10 Marks ) ( three out of four)	30 marks
	Total	100 Marks

  
**Dr. Ritambhara Y. Mehta**  
M.D. (Psychiatry)  
Reg. No. G-16908  
Professor & Head  
Department of Psychiatry  
Government Medical College  
New Hospital, Surat


  
**Dr. Parag S. Shah**  
MD DNB (Psychiatry)  
Professor & Head  
Department of Psychiatry  
SMIMER, Surat


# MD (Psychiatry) Practical Exam -2024

Dept of Psychiatry, Government Medical College, Surat / SMIMER, Surat

## **DISTRIBUTION OF PRACTICAL MARKS**

	Particular		Min Marks				
Q 1	Long Case	100					
Q 2 (A)	Short Case / OSCE - Psychiatry	50					
Q 2 (B)	Short Case - Neurology	50					
Q.3	Tables	80					
Q 4	Thesis	20					
	<b>Total of (1 to 6)</b>	<b>300</b>					
Q.5	Viva Voce	100					
	<b>Grand Total (1 to 7)</b>	<b>400</b>	<b>200</b>				

  
**Dr. Ritambhara Y. Mehta**  
M.D.(Psychiatry)  
Reg. No. G-16908  
Professor & Head  
Department of Psychiatry  
Government Medical College  
Hospital, Surat.

  
**Dr. Parag S. Shah**  
MD DNB (Psychiatry)  
Professor & Head  
Department of Psychiatry  
SMIMER, Surat

# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

Sr. No. :

SEAT NO.

Certificate showing the number of marks obtained by

Shri/Kum/Smt.

in each head of passing at the P.G. Medical M.D. (Psychiatry) Examination held in 2025

Name of College: Government Medical College, Surat / SMIMER Medical College, Surat


	Theory				Total of Theory Marks	Practical					Remarks	
	Paper I	Paper II	Paper III	Paper IV		Clinical / Practical	Thesis	Total (Clinical / Practical & Thesis)	Viva Voce	Total of (Clinical / Practical and Viva Voce)		Total of Theory and Practical
Maximum Marks	100	100	100	100	400	280	20	300	100	400	800	
Minimum Marks	40	40	40	40	200					200		
Marks Obtained												


Entered By \_\_\_\_\_ Checked by \_\_\_\_\_

N.B.: No change in any entry is to be made except by the authority issuing the certificate.  
Infringement of this instruction will be severely dealt with.

- No grass marks for passing

REGISTRAR


  
Dr. Ritambhara Y. Mehta  
M.D. (Psychiatry)  
Reg. No. G-16808  
Professor & Head  
Department of Psychiatry  
Government Medical College  
Civil Hospital, Surat.

  
Dr. Parag S. Shah  
MD DNB (Psychiatry)  
Professor & Head  
Department of Psychiatry  
SMIMER, Surat

**M.D. Course theory 2024 (General Medicine)**

<b>Paper</b>	<b>Course</b>	<b>Marks</b>
<b>Paper-I</b>	<b>Basic sciences as applied to the subject.</b>	<b>100</b>
<b>Paper-II</b>	<b>Therapeutics &amp; Tropical Medicine</b>	<b>100</b>
<b>Paper-III</b>	<b>Systemic Medicine of all organ systems.</b>	<b>100</b>
<b>Paper-IV</b>	<b>Recent advances in the subject</b>	<b>100</b>

  
Dr. Vipul Srivastava

  
Dr. K. J. Bhatti

MD (General Medicine) Practical Exam -2024

Dept of General Medicine, Government Medical College / SMIMER, Surat.

DISTRIBUTION OF PRACTICAL MARKS –

(4 examiners)

	Particular		Marks Obtained	Total	Min Marks	Allotted time for assessment
Q 1	Long Case in CNS	140		300	150	30 min
Q 2(A)	Short Case in CVS	50				10 min
Q 2(B)	Short Case in RS	50				10 min
Q 3(A)	DOPS / OSCE (2)	40				5 min
Q 3(B)	Thesis	20				5 min
Q.3 ( C)	Grand viva	20				100
Q.4(A)	Table.1 (Instruments, Drugs, Medical emergencies)	40		5 min		
Q.4(B)	Table.2 (CXR, CT/MRI,Case scenarios)	40		5 min		
	Total of (1 to 4)	400		400	200	

  
Dr Vipul Srivastava

  
Dr K.N. Bhatt

There will be 25% weightage given to allied subjects ( Psychiatry, Dermatology, and Pulmonary medicine) In Paper II section 2, TILL BATCH OF 2022 ONLY.

**University Examination Theory Paper Syllabus Distribution for General Medicine:**

Paper I Section 1 50 Marks  
● Respiratory system, Cardiovascular system, Rheumatology, Immunology

Paper I Section 2 50 Marks  
● Blood disorders, infectious disease, endocrinology, Poisonings.

Paper II Section 1 50 Marks  
● Nervous system, Alimentary system, Nephrology and General Medicine.

Paper II Section 2 50 Marks  
● Dermatology, Psychiatry, and Respiratory Medicine & Tuberculosis.

**University Examination Paper Format for General Medicine : Two papers of 100 marks each , for paper 1 , section 1 and 2; and paper 2, section1.**

Q.1 Long Essay type Questions( clinical problem based) 20 Marks  
(2 out of 3)  
Q.2 Short Notes (3 out of 4) 12 marks  
Q.3. Reasoning Type Questions/  
Short note - applied aspects (9 Out of 10) 18 marks

**University Examination Paper Format for General Medicine : paper 2, section 2**


Q.1 A) One long essay question 10 marks  
B) Short questions (1 out of 2) 4 marks  
C) Objective questions/ applied aspect (3 out of 4) 3 marks  
Q.2 1 A) One long essay question 10 marks  
B) Short questions (1 out of 2) 4 marks  
C) Objective questions/ applied aspect (3 out of 4) 3 marks  
Q.3. 1 A) One long essay question 10 marks  
B) Short questions (1 out of 2) 3 marks  
C) Objective questions/ applied aspect (3 out of 4) 3 marks  
Question 1 will be Psychiatry; Question 2 will be from Dermatology, Question 3 from respiratory Medicine & TB department

**University Practical Examination for General Medicine:**

● One long clinical Case examination and Viva 60 marks  
● One Short clinical Case examination and Viva 40 marks  
● One Short clinical Case examination and Viva 40 marks  
● Table Viva( X ray, ECG, Emergencies, case scenarios) 30 marks  
● Table Viva( Drugs, Instruments, procedures) 30 marks

**Total 200 m**

Psychiatry, Dermatology and Respiratory departments will conduct their own ward ending exams and send their marks to Medicine department for calculations of internal before university exams.

  
Dr Vipul Srivastava  
K. N. Bhatt

The following paper structure will be applicable to BATCH OF 2023 ONLY.

**University Examination Theory Paper Syllabus Distribution for General Medicine:**

Paper I Section 1	50 Marks
● Respiratory system, Cardiovascular system, Rheumatology, Immunology	
Paper I Section 2	50 Marks
● Blood disorders, infectious disease, endocrinology, Poisonings.	
Paper II Section 1	50 Marks
● Nervous system, Alimentary system, Nephrology and General Medicine.	
Paper II Section 2	50 Marks
● Dermatology, Psychiatry	

**University Examination Paper Format for General Medicine : Two papers of 100 marks each , for paper 1 , section 1 and 2; and paper 2, section1.**

Q.1 Long Essay type Questions( clinical problem based) (2 out of 3)	20 Marks
Q.2 Short Notes (3 out of 4)	12 marks
Q.3. Reasoning Type Questions/ Short note - applied aspects (9 Out of 10)	18 marks

**University Examination Paper Format for General Medicine : paper 2, section 2.**

Q.1 A) One long essay question	10 marks
B) Short questions (2 out of 3)	08 marks
C) Objective questions/ applied aspect (7 out of 8)	07 marks
Q.2 1 A) One long essay question	10 marks
B) Short questions (2 out of 3)	08 marks
C) Objective questions/ applied aspect (7 out of 8)	07 marks

Question 1 will be Psychiatry; Question 2 will be from Dermatology

**University Practical Examination for General Medicine:**

---

● One long clinical Case examination and Viva	60 marks
● One Short clinical Case examination and Viva	40 marks
● One Short clinical Case examination and Viva	40 marks
● Table Viva( X ray, ECG, Emergencies, case scenarios)	30 marks
● Table Viva( Drugs, Instruments, procedures)	<u>30</u> marks
<b>Total</b>	<b>200 m</b>

Psychiatry & Dermatology departments will conduct their own ward ending exams and send their marks to Medicine department for calculations of internal before university exams.

*Amur*

*Dr K N Bhatn*

*Dr Vipul Srivastava*

**UG Internal for GMC Surat AND SMIMER from Admission Years 20-24**

**Medicine Practical Internals**

	Assessment	Till 2022 batch	2023 batch	2024 Batch	
Formative assessment	Ward ending exams	150	150	25+25+25	
	Respiratory ward ending exam internal	15	0	0	
	Dermat ward ending exam internal	15	25	12	
	psychiatry ward ending exam internal	20	25	13	
	Prelim Practicals	200	200	100	200
Logbook	Competencies (Logbook) term 1	30	30		
	Competencies (Logbook) term 2	30	30		
	Competencies (Logbook) term 3	40	40		
	AETCOM (Logbook)	40	40		
	Skills lab (Logbook) term 1	10	10		
	Skills lab (Logbook) term 2	10	10		
	Skills lab (Logbook) term 3	20	20		
Journal	Term 1	10	10		
	Term 2	10	10		
	Term 3	20	20		
Research		20	20		
Attendance		10	10		
<b>Total</b>		<b>650</b>	<b>650</b>		

**Medicine Theory Internals**

	Assessment	Till 2022 batch	2023 batch	2024 Batch	
Formative assessment	Yearly one internal exams in 2nd, 3rd, 4th professional years	200	200	100	
	Prelims - General Medicine section	150	150	75	
	Prelims - Psychiatry section	20	25	0	
	Prelims - Respiratory section	15		12	
	Prelims - Dermat section	15	25	13	200
Continuous internal assessment	Home assignment	15	15		
	Library assignment	15	15		
	Seminar	15	15		
	Museum study	15	15		
	LMS	30	30		
	Attendance	10	10		
<b>Total</b>		<b>500</b>	<b>500</b>		

*D*  
Dr. Vipul Sivasdan

*K. N. Bhatt*  
Dr. K. N. Bhatt

## MD (Dermatology Venereology & Leprosy) Theory Exam - VNSGU

Theory Paper pattern: (Time: 3 hours 100 marks)

Question	Description	Number of Question/s	Marks	Total Marks
1	long answer questions	1	20	20
2	long answer questions	1	20	20
3	long answer questions	1	15	15
4	long answer questions	1	15	15
5	Short answer questions 5 marks each	6	5	30
	<b>Total</b>			<b>100</b>

### M.D. Course (Dermatology Venereology & Leprosy)

#### Four Papers

Paper	Course
Paper-I	Dermatology Basic science - Applied anatomy, physiology, pathology, microbiology, pharmacology
Paper-II	Dermatology & Dermato-therapeutics
Paper-III	Leprosy & STI including HIV
Paper-IV	Dermatology – Recent Advances

*Rishvani*  
**Prof. & Head**  
**Department of Dermatology**  
**SMIMER, SURAT.**

*Hitel*  
**Professor and Head**  
**Department of Dermatology**  
**Government Medical College,**  
**New Civil Hospital**  
**Surat.**

Practical Exam -VNSGU  
MD (Dermatology Venereology & Leprosy)

Distribution of practical marks

	Particular	Marks	Min Marks
1	Long Case (one)	100	} 280 Patel
2	Short case (Leprosy)	50 40	
3	Short case (STI)	50 40	
4	Spotters (10)	100	
5	Table Viva	80 100	
6	Thesis	20	
	Grand Total	400	200

*Raishani*  
Prof. & Head  
Department of Dermatology  
SMIMER. SURAT.

*Patel*  
F/c  
Professor and Head  
Department of Dermatology  
Government Medical College,  
New Civil Hospital  
Surat.

**Examination Scheme of Third MBBS Part-2**

1	2	3	4	5	6	7	8	9	10	11
Sr. No	Name of Subject	University Exam Theory Total Marks	University Exam Theory Total Marks Required for Passing	University Exam Practical Total Marks	University Exam Practical Total Marks Required for Passing	Internal Exam Theory Total Marks	Internal Exam Theory Total Marks Required for Passing	Internal Exam Practical Total Marks	Internal Exam Practical Total Marks Required for Passing	Subject wise additional passing head at Internal & University Examination
1	General Medicine Paper-I	100				500	200	650	260	575 Marks Out of 1150 (no. 7+9=11)
	General Medicine Paper-II	100								
	General Medicine Paper I and Paper II together	200	80	200	80					200 Marks Out of 400 (no.3 +5=11)
2	General Surgery Paper-I	100				500	200	650	260	575 Marks Out of 1150 (no. 7+9=11)
	General Surgery Paper-II	100								
	General Surgery Paper I and Paper II together	200	80	200	80					200 Marks Out of 400 (no.3 +5=11)
3	Obstetric & Gynecology Paper-I	100				500	200	650	260	575 Marks Out of 1150 (no. 7+9=11)
	Obstetric & Gynecology Paper-II	100								
	Obstetric & Gynecology Paper I and Paper II together	200	80	200	80					200 Marks Out of 400 (no.3 +5=11)
4	Paediatrics					375	150	500	200	437.5 Marks Out of 875 (no. 7+9=11)
		100	40	100	40					100 Marks Out of 200 (no.3 +5=11)
5	Ophthalmology					375	150	500	200	437.5 Marks Out of 875 (no. 7+9=11)
		100	40	100	40					100 Marks Out of 200 (no.3 +5=11)
6	Otorhinolaryngology (ENT)					375	150	500	200	437.5 Marks Out of 875 (no. 7+9=11)
		100	40	100	40					100 Marks Out of 200 (no.3 +5=11)
		900	360	900	360					

**Other Passing Heads**

University Theory: 900 (Passing marks 360 out of 900)

University Practical: 900 (Passing marks 360 out of 900)

Total: 1800 (Passing marks 900 out of 1800)

*AS*

MTP Act

Note:

Marks obtained from internal assessment are to be shown in the mark sheet separately but should not be counted for awarding class, medal, prize, rank or for any other purpose than eligibility for appearing in University Examination.

\* No Grace Marks for Passing in University Examination

Ashwin  
19/7/24

Sham  
19/7/24

Praveen  
19/07/24

Shd (G. Madan shd)  
19/7/24

Kavya  
19/7/24

Prishnu  
19/7/24

Jan  
19/7

Praveen  
19/7

Rahul  
22/7/24

19.7.24

Vijay  
22/7/24

19/7/2024

## PG Summative Assessment

Ref: NATIONAL MEDICAL COMMISSION NOTIFICATION New Delhi, 29 December 2023

## A) PG student Eligibility

## ➤ Essential

- a. Attendance:
  - Minimum 80% attendance during the calendar year.
- b. Paper/Publication:
  - At least one Poster or Podium presentation at national / Zonal/ state level conference or
  - Have one research paper published/ accepted for publication in journal of his/her specialty as first author.
- c. Research methodology course:
  - Successfully completed and certified preferably within 1 year of commencement of batch.
- d. Course in Ethics:
  - All postgraduates shall complete course in ethics including Good clinical practice and Good Laboratory Practice, whichever is relevant to them, to be conducted by institutions/ university preferably within 1 year of commencement of batch.
- e. Course in cardiac life support skills:
  - Basic Cardiac Life Support (BCLS) and Advanced Cardiac Life Support (ACLS) preferably within 1 year.
- f. Thesis:
  - Final presentation submission 6 month prior to theory & practical examination
  - Approval of thesis by all 3 examiner (1 internal & 2 external) before appearing for University exam. Examiner for thesis separate than for practical exam
- g. Logbook:
  - All Postgraduates shall maintain a dynamic e-logbook, which need to be updated on a weekly basis about the work being carried out by them and the training programme undergone during the period of training. (from admission batch 2023-24)

## ➤ Additional

- Project:
  - Every PG student shall participate in at least one additional research project that may be started or already ongoing in the department.
- Should attend accredited scientific meeting ( CME, symposia, conference) at least once/ year

- Must undergo training in information technology and use of computers.

**(B) Conduct of examination:**

**Theory exam:**

	Content	Time	Marks
Paper I	Basic Sciences as related to the subject & community pediatric*	3 hours	100
Paper II	General Pediatrics** and allied branches***	3 hours	100
Paper III	Systemic Pediatrics	3 hours	100
Paper IV	Recent Advances and Neonatology	3 hours	100
			Total 400

\* Community pediatrics -National health programs

\*\*General Pediatrics – Nutrition, Growth and development, Immunization, infectious disease, Genetics, Immunology, allergy disorder, Rheumatology, behavioral sciences, Adolescent health, Critical care, accidents and poisoning.

\*\*\*Allied Branches– Psychiatry, skin, Eye, ENT, orthopedics, Rehabilitation.

**Paper style: -**

- Total 10 questions in one question paper
- 2 questions - 10 marks each and
- 8 questions – each question with 2 short notes of 5 marks

**Practical/clinical and Oral/viva voce examination**

**a) Practical Exam**

**The final clinical examination in broad specialty clinical subjects should include:**

- Cases pertaining to major systems (e.g. one long case and two short cases)
- OSCE Stations to cover clinical, procedural and communication skills
- Logbook Records and reports of day-to-day observation during the training.

- 20 marks will be of dissertation/thesis. External examiner outside the state will evaluate dissertation/thesis and take viva voce on it and marks will be given on quality of dissertation/thesis and performance on its viva voce.

	<b>Content</b>	<b>marks</b>
Long case	Case pertaining to major system	150
Short case 1	Newborn	50
Short case 2	Short case	50
OSCE	10 stations	50
Table 1	Preventive and community	20
Table 2	Therapeutics	20
Table 3	Emergency	20
Table 4	Diagnostic	20
Dissertation/thesis		20
Total marks		400

### Tables for practical/viva voce exam

#### **Table 1 - Preventive and community**

1. Vaccines
2. National Programs
3. Growth charts
4. Nutritional values and diets

#### **Table 2 – Therapeutics**

1. Drugs-Antibiotics
2. Drugs related to pediatrics
3. Instruments
4. IV fluids

**Table 3 – Emergency**

1. BLS/NALS/PALS
2. O2 devices, nebulizer, devices used in emergencies
3. Drugs related to emergency
4. Instruments related to emergency

**Table 4 – Diagnostic**

1. X-rays
2. CT/MRI
3. ECG /EEG
4. Lab reports –ABG/ Urine/ Blood/ CSF/ etc.

**Passing criteria:**

<b>Theory</b>	
No of theory papers	4
Marks for each theory paper	100
Total marks for theory papers	400
Passing minimum for theory	200/400 (40 % minimum in each paper)
<b>Practical</b>	
Clinical	300
Viva voce	100
Passing minimum for <b>Practical</b>	200/400
Clinical including Viva voce	
The candidates shall secure not less than 50% marks in each head of passing which shall include	
(1)	Theory – aggregate 50% (In addition, in each Theory paper a candidate has to secure minimum of 40%)
(2)	Practical/Clinical and Viva voce – aggregate 50%
(3)	If any candidate fails even under one head, he/she has to re-appear for both Theory and Practical/Clinical and Viva voce examination.
(4)	Five per cent of mark of total marks of Clinical/Practical and Viva Voce marks (20 marks) will be of dissertation/thesis and it will be part of clinical/practical examination marks. External examiner outside the state will evaluate dissertation/ thesis and take viva voce on it and marks will be given on quality of dissertation/thesis and performance on its viva voce.
(5)	No grace mark is permitted in post-graduate examination either for theory or for practical.

**b) Number of students to be examined per day**

- Maximum number of candidates shall not exceed 8 per day for MD exam

**c) Examiners:**

- Minimum 4 examiner – 2 internal & 2 external
- One of the external examiner shall be from different university outside the state
- An examiner shall not be appointed for more than two consecutive regular examinations for the same Institution.

**d) Eligibility criteria for Examiners:**

- The examiner (both internal and external) shall have three years' experience as recognized Post-graduate Guide in the concerned subject.

**e) Eligibility criteria for Post-graduate guide:**

- A teacher in a Medical College or Institution having a total of 5 years of Teaching experience as Assistant Professor and above after obtaining post-graduate degree in the concerned broad specialty subject shall be recognized as Post Graduate Guide in that specialty, Provided the department has been recognized/permited for conducting Postgraduate course in That subject.

**HoD Pediatrics HoD Pediatrics**

**SMIMER, Surat GMC, Surat**

## Proposed Summative Exam Pattern for MS- Obstetrics and Gynaecology

### THEORY :

Total – 400 marks

- Four papers of 100 marks each, (same as before)
  - Paper-1: Basic Sciences
  - Paper-2: Obstetrics
  - Paper-3: Gynecology and Family Planning
  - Paper-4: Recent Advances
- each answer paper to be assessed by two examiners and average marks of two assessment to be considered as marks for the paper.
- Passing criteria: 40 percent in each paper and not less than 50 percent aggregate in all four papers

### PRACTICALS:

Total – 400 marks :Clinical -300 marks and Viva- 100 marks with following distribution:

- Clinical: 300 marks as follows-
  - Long case- 150 marks ( 1 Obstetrics long case of 75 marks and 1 Gynaecology long case of 75 marks )
  - Short case- 120 marks ( 1 Obstetrics short case of 60 marks and 1 Gynaecology short case of 60 marks )
  - OSCE – 30 marks - six OSCEs of five marks each
- Viva: 100 marks as follows-
  - Obstetrics table- 40 marks
  - Gynaecology with Family Planning table- 40 marks
  - Thesis viva- 20 marks
- Passing criteria: 50 percent aggregate

**TOTAL MARKS for passing – 50 percent aggregate in theory and practicals**

*MSH*  
19/7/24

MD (Community Medicine) Practical Exam -2024  
Dept of Community Medicine, Government Medical College, Surat.  
DISTRIBUTION OF PRACTICAL MARKS -



	Particular		Min Marks				
Q 1	Long Case in Family	100					
Q 2(A)	Short Case in Hospital	25					
Q 2(B)	Public Health Importance :Inspection of Canteen/Hospital Kitchen/BMW of Hospital Ward etc	25					
Q.3	Statistical & Epidemiological Exercise	60					
Q 4	Spots(10)	50					
Q.5	Vector Identification / Microscopic slide (TB,Malaria,Leprosy) 2 OSCEs of 10 marks each	20					
Q.6	Thesis	20					
	<b>Total of (1 to 6)</b>	<b>300</b>					
Q.7	Viva Voce	100					
	Grand Total (1 to 7)	<b>400</b>	200				

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*Final*

M.D. Course 2024 (Community Medicine)

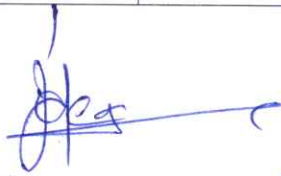
Paper	Course
Paper-I	Conceptual (and applied) understanding of Public Health, Community Medicine, Communicable and Non- Communicable diseases, emerging and re-emerging diseases, Applied Epidemiology, Health research, Bio-statistics.
Paper-II	Nutrition, Environmental Health, Primary Health Care system, Panchayat Raj System, National health Programs, RCH, Demography and Family Welfare, Health Care Administration, Health Management and Public Health Leadership
Paper-III	Social & Behavioral sciences- applied aspects, Scientific communications & Medical writing, Research Methodology, Public Health Legislations, International Health & Global Diseases Surveillance.
Paper-IV	Health Policy planning, Medical Education Technology, Information Technology, Integration of alternative Health system including AYUSH, Occupational Health, Recent advances in Public Health & Miscellaneous issues, Health Economics

PAPER PATTERN M.D.EXAM 2024(Community Medicine)

(3 hours 100 marks) (Four Papers)

Question	Description of question	Marks
1	Long question (no option single question compulsory)	20 Marks
2	Long question (no option single question compulsory)	20 Marks
3	Long question (no option single question compulsory)	20 Marks
4	Write short notes on (4*10 Marks )	40 marks
	Total	100 Marks



# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

Sr. No. :

SEAT NO.

Certificate showing the number of marks obtained by

Shri/ Smt./Kumari

Of Name of College

in each head of passing at the DOCTOR OF MEDICINE (COMMUNITY MEDICINE) Month – Year

	Theory				Total of Theory Marks	Practical					Remarks	
	Paper I	Paper II	Paper III	Paper IV		Clinical / Practical	Thesis	Total (Clinical / Practical & Thesis)	Viva Voce	Total of (Clinical / Practical, Thesis and Viva Voce)		Total of Theory and Practical
<b>Maximum Marks</b>	100	100	100	100	400	280	20	300	100	400	800	
<b>Minimum Marks</b>	40	40	40	40	200					200		
<b>Marks Obtained</b>												

Entered By \_\_\_\_\_ Checked by \_\_\_\_\_

N.B.: No change in any entry is to be made except by the authority issuing the certificate.  
Any Infringement will be severely dealt with.

Passing Heads

University Theory: 400 (Passing marks 200 out of 400)

University Practical: 400 (Passing marks 200 out of 400)

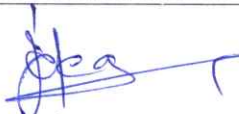

Total: 800 (Passing marks 400 out of 800)

- No grace marks for passing in University Examination

REGISTRAR

Diploma Course 2024 (Community Medicine)

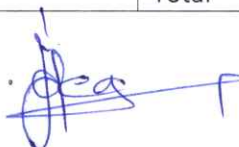

Paper	Course
Paper-I	Conceptual (and applied) understanding of Public Health, Community Medicine, Communicable and Non- Communicable diseases, emerging and re-emerging diseases, Applied Epidemiology, Health research, Bio-statistics. Nutrition, Environmental Health, Occupational Health,
Paper-II	Primary Health Care system, Panchayat Raj System, National health Programs, RCH, Demography and Family Welfare, Health Care Administration, Health Management and Public Health Leadership Social & Behavioral sciences- applied aspects, Scientific communications & Medical writing, Research Methodology,
Paper-III	Public Health Legislations, International Health & Global Diseases Surveillance. Health Policy planning, Medical Education Technology, Information Technology, Integration of alternative Health system including AYUSH, Recent advances in Public Health & Miscellaneous issues, Health Economics

PAPER PATTERN Diploma Exam 2024 (Community Medicine)

(3 hours 100 marks) (Three Papers)

Question	Description of question	Marks
1	Long question (no option single question compulsory)	20 Marks
2	Long question (no option single question compulsory)	20 Marks
3	Long question (no option single question compulsory)	20 Marks
4	Write short notes on (4*10 Marks )	40 marks
	Total	100 Marks

DCM (Diploma in Community Medicine) Practical Exam –  
 Dept of Community Medicine, Government Medical College, Surat.  
 DISTRIBUTION OF PRACTICAL MARKS - Date: -

	Particular	Marks	Min	
			Marks	
Q 1	Long Case in Family	50		
Q 2	Short Case in Hospital / Public Health	25		
	Importance :Inspection of Canteen/Hospital Kitchen/BMW of Hospital Ward etc			
Q 3	Statistical & Epidemiological Exercise	50		
Q.4	Spots (05)	25		
Q 5	Vector Identification / Microscopic slide	25		
	(TB,Malaria,Leprosy) OSCEs			
Q.6	Project Work Viva	25		
	<b>Total of (1 to6)</b>	<b>200</b>		
Q.7	Viva Voce	100		
	<b>Grand Total</b>	<b>300</b>	<b>150</b>	

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# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

Sr. No. :

SEAT NO.

Certificate showing the number of marks obtained by

Shri/ Smt./Kumari

Of Name of College

in each head of passing at the DIPLOMA IN COMMUNITY MEDICINE Month – Year

	Theory			Total of Theory Marks	Practical				Remarks
	Paper I	Paper II	Paper III		Clinical / Practical	Viva Voce	Total of (Clinical / Practical and Viva Voce)	Total of Theory and Practical	
<b>Maximum Marks</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>300</b>	<b>200</b>	<b>100</b>	<b>300</b>	<b>600</b>	
<b>Minimum Marks</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>150</b>			<b>150</b>		
<b>Marks Obtained</b>									

Entered By \_\_\_\_\_ Checked by \_\_\_\_\_

N.B.: No change in any entry is to be made except by the authority issuing the certificate.  
Infringement of this instruction will be severely dealt with.

Passing Heads

University Theory: 300 (Passing marks 150 out of 300)

University Practical: 300 (Passing marks 150 out of 300)

Total: 600 (Passing marks 300 out of 600)

REGISTRAR

- No grace marks for passing in University Examination

**PG Summative Assessment**  
**Ref: NATIONAL MEDICAL COMMISSION**  
**NOTIFICATION New Delhi, 29 December 2023**

A) PG student Eligibility

➤ **Essential**

a. Attendance:

- Minimum 80% attendance during the calendar year.

b. Paper/Publication:

- At least one Poster **or** Podium presentation at national / Zonal/ state level conference **or**
- Have one research paper published/ accepted for publication in journal of his/her specialty as first author.

c. Research methodology course:

- Successfully completed and certified preferably within 1 year of commencement of batch.

d. Course in Ethics:

- All postgraduates shall complete course in ethics including Good clinical practice and Good Laboratory Practice, whichever is relevant to them, to be conducted by institutions/ university preferably within 1 year of commencement of batch.

e. Course in cardiac life support skills:

- Basic Cardiac Life Support (BCLS) and Advanced Cardiac Life Support (ACLS) preferably within 1 year.

f. Thesis:

- Final presentation submission 6 month prior to theory & practical examination
- Approval of thesis by all 3 examiner (1 internal & 2 external) before appearing for University exam. Examiner for thesis separate than for practical exam

g. Logbook:

- All Postgraduates shall maintain a dynamic e-logbook, which need to be updated on a weekly

basis about the work being carried out by them and the training programme undergone during the period of training. (from admission batch 2023-24)

➤ **Additional**

- **Project:**
  - Every PG student shall participate in at least one additional research project that may be started or already ongoing in the department.
- Should attend accredited scientific meeting ( CME, symposia, conference) at least once/ year
- Must undergo training in information technology and use of computers.

**(B) Conduct of examination:**

**Theory exam:**

	Content	Time	Marks
Paper I	Basic Sciences as related to the subject & community pediatric*	3 hours	100
Paper II	General Pediatrics** and allied branches ***	3 hours	100
Paper III	Systemic Pediatrics	3 hours	100
Paper IV	Recent Advances and Neonatology	3 hours	100
			Total 400

\* Community pediatrics -National health programs

\*\*General Pediatrics – Nutrition, Growth and development, Immunization, infectious disease, Genetics, Immunology, allergy disorder, Rheumatology, behavioral sciences, Adolescent health, Critical care, accidents and poisoning.

\*\*\*Allied Branches– Psychiatry, skin, Eye, ENT, orthopedics, Rehabilitation.

**Paper style: -**

- Total 10 questions in one question paper
- 2 questions - 10 marks each and
- 8 questions – each question with 2 short notes of 5

## Practical/clinical and Oral/viva voce examination

### a) Practical Exam

**The final clinical examination in broad specialty clinical subjects should include:**

- Cases pertaining to major systems (e.g. one long case and two short cases)
- OSCE Stations to cover clinical, procedural and communication skills
- Logbook Records and reports of day-to-day observation during the training.
- 20 marks will be of dissertation/thesis. External examiner outside the state will evaluate dissertation/thesis and take viva voce on it and marks will be given on quality of dissertation/thesis and performance on its viva voce.

	Content	marks
Long case	Case pertaining to major system	150
Short case 1	Newborn	50
Short case 2	Short case	50
OSCE	10 stations	50
Table 1	Preventive and community	20
Table 2	Therapeutics	20
Table 3	Emergency	20
Table 4	Diagnostic	20
Dissertation/thesis		20
Total marks		400

### Tables for practical/viva voce exam

#### **Table 1 - Preventive and community**

1. Vaccines
2. National Programs
3. Growth charts
4. Nutritional values and diets

## **Table 2 – Therapeutics**

1. Drugs-Antibiotics
2. Drugs related to pediatrics
3. Instruments
4. IV fluids

## **Table 3 – Emergency**

1. BLS/NALS/PALS
2. O2 devices, nebulizer, devices used in emergencies
3. Drugs related to emergency
4. Instruments related to emergency

## **Table 4 – Diagnostic**

1. X-rays
2. CT/MRI
3. ECG /EEG
4. Lab reports –ABG/ Urine/ Blood/ CSF/ etc.

## **Passing criteria:**

### **Theory**

No of theory papers	4
Marks for each theory paper	100
Total marks for theory papers	400
Passing minimum for theory	200/400 (40 % minimum in each paper)

### **Practical**

Clinical	300
Viva voce	100
Passing minimum for <b>Practical</b>	200/400
Clinical including Viva voce	

The candidate shall secure not less than 50% marks in each head of passing which shall include

- (1) Theory – aggregate 50% (In addition, in each Theory paper a candidate has to secure minimum of 40%)
- (2) Practical/Clinical and Viva voce - aggregate 50%
- (3) If any candidate fails even under one head, he/she has to re-appear for both Theory and Practical/Clinical and Viva voce examination.
- (4) Five per cent of mark of total marks of Clinical/Practical and Viva Voce marks (20 marks) will be of dissertation/thesis and it will be part of clinical/practical examination marks. External examiner outside the state will evaluate dissertation/ thesis and take viva voce on it and marks will be given on quality of dissertation/thesis and performance on its viva voce.
- (5) No grace mark is permitted in post-graduate examination either for theory or for practical.

**b) Number of students to be examined per day**

- Maximum number of candidates shall not exceed 8 per day for MD exam

**c) Examiners:**

- Minimum 4 examiner – 2 internal & 2 external
- One of the external examiner shall be from different university outside the state
- An examiner shall not be appointed for more than two consecutive regular examinations for the same Institution.

**d) Eligibility criteria for Examiners:**

- The examiner (both internal and external) shall have three years' experience as recognized Post-graduate Guide in the concerned subject.

**e) Eligibility criteria for Post-graduate guide:**

- A teacher in a Medical College or Institution having a total of 5 years of Teaching experience as Assistant Professor and above after obtaining post-graduate degree in the Concerned broad specialty subject shall be recognized as Post Graduate Guide in that specialty, Provided the department has been recognized/permitted for conducting Postgraduate course in That subject.

**HoD Pediatrics  
SMIMER, Surat**

*Signature*  
19/11/2024  
Professor & Head  
Pediatrics Deptt.  
SMIMER, SURAT

*Signature*  
**HoD Pediatrics  
GMC, Surat**

Professor & Head of  
Department of Pediatrics  
Government Medical College  
Surat

*Signature*

Dr. Neelam Shih  
Prof & Head  
GMCERS, Navsari

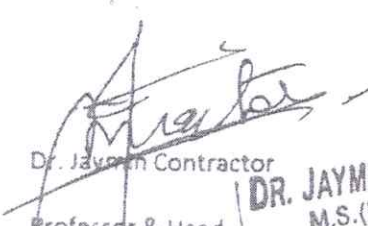
*Signature* Dr. Dignant D Sheth

Paper Pattern : (3 hours, 200 marks), Four papers.

Question	Description of Question	Marks
1	Single Long Question (No Option) Compulsory	25
2	Single Long Question (No Option) Compulsory	25
3	Single Long Question (No Option) Compulsory	25
4	Short Notes : 5 Short notes - 5 Marks each	25
	<b>Total</b>	<b>100 marks</b>

Practical / Clinical & Viva voce pattern

Description	Marks
Long case - One	140
Short case - Two	100 (50 each)
OSCE	40
Dissertation Viva	20
Viva voce - Two tables	100 (50 each)
<b>Total</b>	<b>400</b>

  
Dr. Jaymin Contractor  
Professor & Head  
ENT Department  
GMS-Surat

**DR. JAYMIN A. CONTRACTOR**  
M.S.(ENT) Reg. No. G-9608  
Professor & Head  
Dept. of ENT-Head & Neck Surgery,  
Government Medical College &  
New Civil Hospital, SURAT-395 001

  
Dr. Ajay Panchal

Professor & Head  
ENT Department  
SMIMER Medical College

**DEPARTMENT OF ENT  
SMIMER & GMC-SURAT**

**Criteria for evaluation of M.S. (ENT).**

Sr. No.	Description	M.S/M.D./M.ch./DM Courses
1	<b>THEORY</b> No. of theory papers Marks for each theory papers Total marks for Theory paper Passing Minimum for theory	4 100 400 200/400 (40% minimum in each paper)
2	<b>PRACTICAL/CLINICAL</b>	300
3	<b>VIVA VOCE</b> Passing minimum for Practical/Clinical including Viva voce.	100 200/400

The candidate shall secure not less than 50% marks in each head of passing which shall include

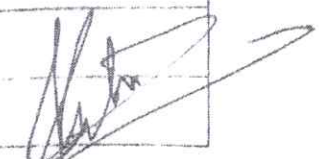
- 1) Theory – aggregate 50% (in addition, in each Theory paper a candidate has to secure minimum of 40%)
- 2) Practical/Clinical and Viva voce – aggregate 50%
- 3) If any candidate fails even under one head, he/she has to re-appear for both Theory and Practical/Clinical and Viva voce examination.
- 4) Five percent of mark of total marks of Clinical/Practical and Viva Voce marks (20 marks) will be of dissertation/thesis and it will be part of clinical/practical examination marks. External examiner outside the state will evaluate dissertation/thesis and take viva voce on it and marks will be given on quality of dissertation/thesis and performance on its viva voce.
- 5) No grace mark is permitted in post-graduate examination either for theory or for practical.

**M.S. (ENT) - 2024  
Theory Pattern**

**Total – 4 papers :- 100 marks each**

**Total marks – 400**

Paper - I	Basic sciences related to Otorhinolaryngology
Paper - II	Principles & practices of Otorhinolaryngology
Paper - III	General surgical principles & Head-Neck surgery
Paper - IV	Recent advances in Otorhinolaryngology & Head-Neck surgery

  
**DR. JAYMIN A. CONTRACTOR**  
 M.S.(ENT) Reg. No. G-9606  
 Professor & Head  
 Dept. of ENT-Head & Neck Surgery,  
 Government Medical College &  
 New Civil Hospital, SURAT-395 001

# Paper Pattern M.S Orthopaedics Question

## **PAPER I [BASIC SCIENCES as applied to Orthopaedics]**

- Question 1. -----(25 Marks)  
Question 2. -----(25 Marks)  
Question 3. -----(25 Marks)  
Question 4. -----(25 Marks)

## **PAPER II [TRAUMATOLOGY AND REHABILITATION]**

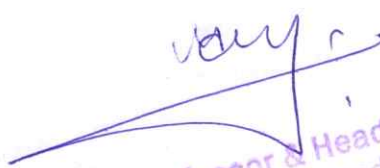
- Question 1. -----(25 Marks)  
Question 2. -----(25 Marks)  
Question 3. -----(25 Marks)  
Question 4. -----(25 Marks)


## **PAPER III [ORTHOPAEDIC DISEASES]**

- Question 1. -----(25 Marks)  
Question 2. -----(25 Marks)  
Question 3. -----(25 Marks)  
Question 4. -----(25 Marks)

## **PAPER IV [RECENT ADVANCES IN ORTHOPAEDIC SURGERY + General Surgery as applied to Orthopaedics]**

- Question 1. -----(25 Marks)  
Question 2. -----(25 Marks)  
Question 3. -----(25 Marks)  
Question 4. -----(25 Marks)

  
**Professor & Head**  
**Dept. of Orthopedic**  
**Govt. Medical College &**  
**New Civil Hospital, Surat, Gujarat**

  
**PROFESSOR AND HOD**  
**ORTHOPAEDIC DEPARTMENT**  
**SMIMER, SURAT.**

# MS(General Surgery ) Branch 1 Question Paper Pattern

## General Surgery Paper I (General Surgery including Applied Basic Sciences)

### Section 1

Question 1: \_\_\_\_\_ (10Marks)

Question 2: \_\_\_\_\_ 10Marks)

### Section 2

Question 3: \_\_\_\_\_ (10Marks)

Question 4: \_\_\_\_\_ (10Marks)

### Section 3

Question 5: \_\_\_\_\_ (10Marks)

Question 6: \_\_\_\_\_ (10Marks)

### Section 4

Question 7: \_\_\_\_\_ (10Marks)

Question 8: \_\_\_\_\_ (10Marks)

### Section 5

Write in Short

Question 9: \_\_\_\_\_ (5Marks)

Question 10: \_\_\_\_\_ (5Marks)

### Section 6

Write in Short

Question 11: \_\_\_\_\_ (5Marks)

Question 12: \_\_\_\_\_ (5Marks)

*J. S. S.*

# General Surgery Paper II( General Surgery & Pathology) (GIT)

## Section 1

Question 1: \_\_\_\_\_ (10Marks)

Question 2: \_\_\_\_\_ 10Marks)

## Section 2

Question 3: \_\_\_\_\_ (10Marks)

Question 4: \_\_\_\_\_ (10Marks)

## Section 3

Question 5: \_\_\_\_\_ (10Marks)

Question 6: \_\_\_\_\_ (10Marks)

## Section 4

Question 7: \_\_\_\_\_ (10Marks)

Question 8: \_\_\_\_\_ (10Marks)

## Section 5

Write in Short

Question 9: \_\_\_\_\_ (5Marks)

Question 10: \_\_\_\_\_ (5Marks)

## Section 6

Write in Short

Question 11: \_\_\_\_\_ (5Marks)

Question 12

(5 Marks)

Final

# General Surgery Paper IV ( General Surgery & Pathology) (Subspecialties, Modern Trends and Recent Advances)

## Section 1

Question 1: \_\_\_\_\_ (10Marks)

Question 2: \_\_\_\_\_ (10Marks)

## Section 2

Question 3: \_\_\_\_\_ (10Marks)

Question 4: \_\_\_\_\_ (10Marks)

## Section 3

Question 5: \_\_\_\_\_ (10Marks)

Question 6: \_\_\_\_\_ (10Marks)

## Section 4

Question 7: \_\_\_\_\_ (10Marks)

Question 8: \_\_\_\_\_ (10Marks)

## Section 5

Write in Short

Question 9: \_\_\_\_\_ (5Marks)

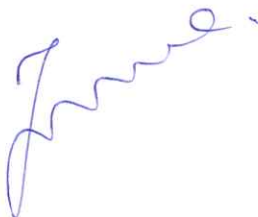
Question 10: \_\_\_\_\_ (5Marks)

## Section 6

Write in Short

Question 11: \_\_\_\_\_ (5Marks)

Question 12: \_\_\_\_\_ (5Marks)



# General Surgery Paper III( General Surgery & Pathology) (Breast, Endocrine and GUT)

## Section 1

Question 1: \_\_\_\_\_ (10Marks)

Question 2: \_\_\_\_\_ 10Marks)

## Section 2

Question 3: \_\_\_\_\_ (10Marks)

Question 4: \_\_\_\_\_ (10Marks)

## Section 3

Question 5: \_\_\_\_\_ (10Marks)

Question 6: \_\_\_\_\_ (10Marks)

## Section 4

Question 7: \_\_\_\_\_ (10Marks)

Question 8: \_\_\_\_\_ (10Marks)

## Section 5

Write in Short

Question 9: \_\_\_\_\_ (5Marks)

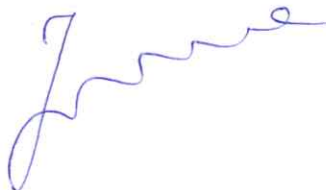
Question 10: \_\_\_\_\_ (5Marks)

## Section 6

Write in Short

Question 11: \_\_\_\_\_ (5Marks)

Question 12: \_\_\_\_\_ (5Marks)



# VEER NARMAD SOUTH GUJARAT UNIVERSITY

## POST GRADUATE EXAMS IN OPHTHALMOLOGY

### **Theory exam (400 marks)**

Four papers of 100 marks each (Every paper has four questions-25 marks each, either structured long questions/structured 2-3 short questions)

Paper I: Basic Sciences related to Ophthalmology, Refraction & Optics

Paper II: Clinical Ophthalmology

Paper III: Systemic Diseases in Relation to Ophthalmology

Paper IV: Recent Advances in Ophthalmology and Community Ophthalmology

### **Practical exam(400 marks)**

One long case : 140 marks

Two short cases : 50 marks each

OSCE : 40 marks

Dissertation viva : 20 marks

Table viva : two vivas 50 marks each

**Total (Theory & practical) : 800 marks**

## **SYLLABUS OF POST GRADUATE EXAMS IN OPHTHALMOLOGY**

These are only broad guidelines and are illustrative, there may be overlap between sections.

### **I. Basic Sciences:**

1. Orbital and ocular anatomy

i. Gross anatomy

ii. Histology

iii. Embryology

2. Ocular Physiology

3. Ocular Pathology

4. Ocular Biochemistry

General biochemistry, biochemistry applicable to ocular function

5. Ocular Microbiology  
General Microbiology, specific microbiology applicable to the eye
6. Immunology with particular reference to ocular immunology
7. Genetics in ophthalmology
8. Community Eye Health

## **II. Optics**

- a. Basic physics of optics
- b. Applied ophthalmic optics
- c. Applied optics including optical devices
- d. Disorders of Refraction

## **III. Clinical Ophthalmology**

- i. Disorders of the lids
- ii. Disorders of the lacrimal system
- iii. Disorders of the Conjunctiva
- iv. Disorders of the Sclera
- v. Disorders of the Cornea
- vi. Disorders of the Uveal Tract
- vii. Disorders of the Lens
- viii. Disorders of the Retina
- ix. Disorders of the Optic Nerve and Visual Pathway
- x. Disorders of the Orbit
- xi. Glaucoma
- xii. Neuro-ophthalmology
- xiii. Paediatric ophthalmology
- xiv. Ocular involvement in systemic disease
- xv. Immune ocular disorders
- xvi. Strabismus and Amblyopia
- xvii. Ocular oncology