



# હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી

NAAC A (3.02) State University

પો.બો.નં.—૨૧, યુનિવર્સિટી રોડ, પાટણ (ઉ.ગુ.) ૩૮૪૨૬૫

ફોન: (૦૨૭૬૬) ૨૩૭૦૦૦

ફેક્સ : (૦૨૭૬૬) ૨૩૧૯૧૭

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## પરિપત્ર ક્રમાંક — ૧૮૧/૨૦૨૧

**વિષય:—** Second Year MBBS ના અભ્યાસક્રમ /સ્કીમ અંગે..

આ યુનિવર્સિટી સંલગ્ન મેડિકલ કોલેજોના ડીનશ્રીઓને જણાવવાનું કે, Medical Council Of India ધ્વારા તૈયાર કરવામાં આવેલ સામેલ પરિશિષ્ટ પ્રમાણેનો Second Year MBBSના નવો અભ્યાસક્રમ માટે મેડિકલની અભ્યાસ સમિતિએએ ભલામણ કર્યાનુસાર જૂન — ૨૦૨૧ થી અમલ માં આવે તે રીતે ફેકલ્ટીવતી માન. કુલપતિશ્રીએ કરેલ ભલામણ એકેડેમિક કાઉન્સિલએ તેની તા. ૦૮/૦૬/૨૦૨૧ ની સભાના ઠરાવ ક્રમાંક — ૬૧ થી મંજૂર કરેલ છે. જેનો અમલ થવા સારૂ સંબંધિતોને આ સાથે મોકલવામાં આવે છે, જેનો યુસ્ત અમલ થવા વિનંતી છે.

આ બાબતની સંબંધિત અધ્યાપકો તથા વિદ્યાર્થીઓને આપના સ્તરેથી જાણ કરવા વિનંતી છે.

નોંધ :— (૧) વિદ્યાર્થીઓની જરૂરીયાત માટે પરિપત્રની એક નકલ કોલેજના ગ્રંથાલયમાં મૂકવાની રહેશે.

(૨) ઉપરોક્ત પરિપત્ર યુનિવર્સિટીની વેબ સાઈટ [www.ngu.ac.in](http://www.ngu.ac.in) પર પણ ઉપલબ્ધ કરાવવામાં આવનાર છે.

બિડાણ : ઉપર મુજબ

સહી/—  
અધ્યક્ષ  
કુલસચિવવતી

નં.—એ કે/અ× સ/ ૧૬૧૭ / ૨૦૨૧

તારીખ : ૨૫ / ૦૬ / ૨૦૨૧

પ્રતિ,

૧. સંલગ્ન મેડિકલ કોલેજોના ડીનશ્રીઓ
૨. ડૉ.અનિલ જે. નાયક, (ડીનશ્રી—મેડીસીન વિદ્યાશાખા), જી.ઈ.એમ.આર.એસ. મેડિકલ કોલેજ, મુ.પો.—ધારપુર તા.જિ—પાટણ.
૩. પરીક્ષા નિયામકશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ. (પાંચ નકલ)
૪. ઈનચાર્જ ઓફિસરશ્રી, સબસેન્ટર, ખેડબ્રહ્મા કેમ્પસ, મુ. વડાલી, જિ. સાબરકાંઠા. ( હેમ.ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ.)
૫. ગ્રંથપાલશ્રી, હેમ.ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ. (વિદ્યાર્થીઓના ઉપયોગ સારૂ રેકર્ડ ફાઈલ માટે)
૬. સિસ્ટમ એનાલીસ્ટશ્રી, કોમ્પ્યુટર (રીઝલ્ટ) સેન્ટર, હેમ.ઉ.ગુ.યુનિવર્સિટી, પાટણ. તરફ પરિણામ માટે તથા વેબસાઈટ પર મૂકવા સારૂ.
૭. મુખ્ય હિસાબી અધિકારીશ્રી (મહેકમ), હેમ. ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ તરફ—પરિપત્રની ફાઈલ અર્થે
૮. સિલેક્ટ ફાઈલે— (૨ નકલ)

## Theory Examination Scheme

### PHARMACOLOGY

#### Topics Division

**Paper-I** :- General Pharmacology, Autonomic Nervous system (ANS), Central Nervous system (CNS) and Peripheral Nervous System (PNS), AETCOM (Modules 2.1, 2.2, 2.3), Autacoids, Drug therapy of inflammation, Renal and Cardiovascular system, Blood, Miscellaneous Topics: (Poisonings and Toxicology, Geriatric and Paediatric Pharmacology, Essential Medicines, FDCs (Fixed Drug Combination), OTCs (Over The Counter Drugs), Herbal medicines, Pharmacogenomics and Pharmacoeconomics, Drug Regulations, Acts and other legal aspects)

**Paper-II**: - Chemotherapy- (General and Specific), GIT, Respiratory system, Endocrine system and Drugs affecting Uterine motility, Immunomodulators, Vaccines and Sera, National Health Programmes, Dermatological Pharmacology, Ocular Pharmacology, Dietary supplements and nutraceuticals, Antiseptics and Disinfectants

Time Duration : 3 Hours

#### **Paper-I** **Section I**

Marks 100

<b>Q.1</b>	<b>Structured Long Question</b> General Pharmacology, ANS, CNS	Any 1 out of 2	1 x 10 marks = 10 marks
<b>Q.2 (a)</b>	<b>Case based scenario/ Applied Short notes</b> ANS, CNS, AETCOM	Any 2 out of 3	2 x 6 marks = 12 marks
<b>Q.2 (b)</b>	<b>Write Short Notes</b> General Pharmacology, ANS, PNS, CNS, AETCOM	Any 3 out of 4	3 x 6 marks = 18 marks
<b>Q.3</b>	<b>Answer only in 2-3 Sentences</b> General Pharmacology, ANS, PNS, CNS	Any 5 out of 6	5 x 2 marks = 10 marks

#### **Section II**

<b>Q.4</b>	<b>Structured Long Question</b> CVS, Renal and Blood	Any 1 out of 2	1 x 10 marks = 10 marks
<b>Q.5 (a)</b>	<b>Case based scenario/ Applied Short notes</b> CVS, Autacoids, Drug Therapy of Inflammation	Any 2 out of 3	2 x 6 marks = 12 marks
<b>Q.5 (b)</b>	<b>Write Short Notes</b> Renal system, Drug Therapy of Inflammation, Blood, Miscellaneous topics	Any 3 out of 4	3 x 6 marks = 18 marks
<b>Q.6</b>	<b>Answer only in 2-3 Sentences</b> Autacoids, Drug Therapy of Inflammation, CVS, Renal system, Blood, Miscellaneous topics	Any 5 out of 6	5 x 2 marks = 10 marks

Time Duration : 3 Hours

#### **Paper-II** **Section I**

Marks 100

<b>Q.1</b>	<b>Structured Long Question</b> General chemotherapy and Specific Chemotherapy	Any 1 out of 2	1 x 10 marks = 10 marks
<b>Q.2 (a)</b>	<b>Case based scenario/ Applied Short notes</b> General chemotherapy and Specific Chemotherapy	Any 2 out of 3	2 x 6 marks = 12 marks
<b>Q.2 (b)</b>	<b>Write Short Notes</b> General and Specific chemotherapy	Any 3 out of 4	3 x 6 marks = 18 marks
<b>Q.3</b>	<b>Answer only in 2-3 Sentences</b> General and Specific chemotherapy	Any 5 out of 6	5 x 2 marks = 10 marks

#### **Section II**

<b>Q.4</b>	<b>Structured Long Question</b> Respiratory System and Endocrine system	Any 1 out of 2	1 x 10 marks = 10 marks
<b>Q.5 (a)</b>	<b>Case based scenario/ Applied Short notes</b> Drug affecting Uterine motility, GIT and Respiratory System	Any 2 out of 3	2 x 6 marks = 12 marks
<b>Q.5 (b)</b>	<b>Write Short Notes</b> Endocrine system, GIT, Miscellaneous topics	Any 3 out of 4	3 x 6 marks = 18 marks
<b>Q.6</b>	<b>Answer only in 2-3 Sentences</b> Respiratory System, GIT, Endocrine system, Drug affecting Uterine motility, and Miscellaneous topics	Any 5 out of 6	5 x 2 marks = 10 marks

## Theory Examination Scheme

### Microbiology

#### Topics Division

**Paper-I** :- Sterilization & disinfection; Diagnostic methods in microbiology laboratory; Hospital infection; epidemiology & national programme; Emerging Infectious diseases; Antimicrobial resistance; Culture media & methods; Immunology (basics & applied); General properties of bacteria, virus, parasites & fungus: including morphology, physiology, classification & genetics; Infection & host-organism interaction; Zoonotic diseases; AETCOM (Modules 2.4, 2.8).

**Paper-II** :- CVS & blood infections & related diseases; Gastrointestinal and hepatobiliary system infections & related diseases; Musculoskeletal system skin and soft tissue infections; Central Nervous System infections; Respiratory tract infections; Genitourinary & Sexually transmitted infections; Opportunistic infections; Oncogenic viruses

**Time Duration : 3 Hours**

**Paper –I**

**Marks 100**

#### Section I

- |                |  |                |                         |
|----------------|--|----------------|-------------------------|
| <b>Q.1</b>     | <b>Structured Long Question</b><br>sterilization & disinfection / Hospital infection control policies / hospital infection surveillance  | Any 1 out of 2 | 1 x 10 marks = 10 marks |
| <b>Q.2 (a)</b> | <b>Case based scenario/ Applied Short notes</b><br>Investigation of outbreak of infection in community or hospital / antibiotic stewardship / emerging infectious diseases / Zoonotic diseases   | Any 2 out of 3 | 2 x 6 marks = 12 marks  |
| <b>Q.2 (b)</b> | <b>Write Short Notes</b><br>Diagnostic methods in microbiology including automation & recent modalities, culture media & methods/ Sterilization & disinfection /AETCOM   | Any 3 out of 4 | 3 x 6 marks = 18 marks  |
| <b>Q.3</b>     | <b>Answer only in 2-3 Sentences</b><br>sterilization & disinfection / Hospital infection control policies / hospital infection surveillance / antibiotic stewardship / emerging infectious diseases / Diagnostic methods in microbiology including automation & recent modalities, culture media & methods/ Sterilization & disinfection /AETCOM | Any 5 out of 6 | 5 x 2 marks = 10 marks  |

#### Section II

- |                |   |                |                         |
|----------------|---|----------------|-------------------------|
| <b>Q.4</b>     | <b>Structured Long Question</b><br>Basics of immunity & immunology  | Any 1 out of 2 | 1 x 10 marks = 10 marks |
| <b>Q.5 (a)</b> | <b>Write Short Notes</b><br>Applied immunology, infection, host parasite relationship, virus - host interaction   | Any 2 out of 3 | 2 x 6 marks = 12 marks  |
| <b>Q.5 (b)</b> | <b>Write Short Notes</b><br>General properties of bacteria, virus, parasites & fungus – including morphology, physiology, classification & genetics   | Any 3 out of 4 | 3 x 6 marks = 18 marks  |
| <b>Q.6</b>     | <b>Answer only in 2-3 Sentences</b><br>Basics of immunity & immunology / Applied immunology, infection, host parasite relationship, virus -host interaction / General properties of bacteria, virus, parasites & fungus – including morphology, physiology, classification & genetics | Any 5 out of 6 | 5 x 2 marks = 10 marks  |

**Time Duration : 3 Hours**

**Paper –II**

**Marks 100**

#### Section I

- |                |   |                |                         |
|----------------|---|----------------|-------------------------|
| <b>Q.1</b>     | <b>Structured Long Question</b><br>CVS / CNS / Musculoskeletal system / skin and soft tissue infections   | Any 1 out of 2 | 1 x 10 marks = 10 marks |
| <b>Q.2 (a)</b> | <b>Case based scenario/ Applied Short notes</b><br>CVS / CNS / Musculoskeletal system skin and soft tissue infections / Respiratory / Genitourinary & STDs / GI & hepatobiliary | Any 2 out of 3 | 2 x 6 marks = 12 marks  |
| <b>Q.2 (b)</b> | <b>Write Short Notes</b><br>CVS / CNS / Musculoskeletal system / skin and soft tissue infections  | Any 3 out of 4 | 3 x 6 marks = 18 marks  |
| <b>Q.3</b>     | <b>Answer only in 2-3 Sentences</b><br>CVS/CNS/ Musculoskeletal system/skin and soft tissue infections  | Any 5 out of 6 | 5 x 2 marks = 10 marks  |

#### Section II

- |                |   |                |                         |
|----------------|---|----------------|-------------------------|
| <b>Q.4</b>     | <b>Structured Long Question</b><br>Respiratory / Genitourinary & STDs / GI & hepatobiliary  | Any 1 out of 2 | 1 x 10 marks = 10 marks |
| <b>Q.5 (a)</b> | <b>Write Short Notes</b><br>Opportunistic infections / oncogenic virus / miscellaneous  | Any 2 out of 3 | 2 x 6 marks = 12 marks  |
| <b>Q.5 (b)</b> | <b>Write Short Notes</b><br>Respiratory / Genitourinary & STDs / GI & hepatobiliary   | Any 3 out of 4 | 3 x 6 marks = 18 marks  |
| <b>Q.6</b>     | <b>Answer only in 2-3 Sentences</b><br>Respiratory / Genitourinary & STDs / GI & hepatobiliary / Opportunistic infections / oncogenic virus / miscellaneous | Any 5 out of 6 | 5 x 2 marks = 10 marks  |

## Theory Examination Scheme

### PATHOLOGY

#### Topics Division

**Paper-I** :- General Pathology, Haematology, Blood bank & AETCO M (Modules 2.5, 2.6, 2.7)

**Paper-II**: - Systemic Pathology & Clinical Pathology

Time Duration : 3 Hours

#### **Paper-I** **Section I**

Marks 100

<b>Q.1</b>	<b>Structured Long Question</b> General Pathology	Any 1 out of 2	1 x 10 marks = 10 marks
<b>Q.2 (a)</b>	<b>Case based scenario/ Applied Short notes</b> General Pathology	Any 2 out of 3	2 x 6 marks = 12 marks
<b>Q.2 (b)</b>	<b>Write Short Notes</b> Topics covered in Paper I and AETCOM	Any 3 out of 4	3 x 6 marks = 18 marks
<b>Q.3</b>	<b>Answer only in 2-3 Sentences</b> Topics covered in Paper I	Any 5 out of 6	5 x 2 marks = 10 marks

#### **Section II**

<b>Q.4</b>	<b>Structured Long Question</b> Hematology and Blood bank	Any 1 out of 2	1 x 10 marks = 10 marks
<b>Q.5 (a)</b>	<b>Case based scenario/ Applied Short notes</b> Hematology and Blood bank	Any 2 out of 3	2 x 6 marks = 12 marks
<b>Q.5 (b)</b>	<b>Write Short Notes</b> Topics covered in Paper I	Any 3 out of 4	3 x 6 marks = 18 marks
<b>Q.6</b>	<b>Answer only in 2-3 Sentences</b> Topics covered in Paper I	Any 5 out of 6	5 x 2 marks = 10 marks

Time Duration : 3 Hours

#### **Paper-II** **Section I**

Marks 100

<b>Q.1</b>	<b>Structured Long Question</b> Systemic Pathology	Any 1 out of 2	1 x 10 marks = 10 marks
<b>Q.2 (a)</b>	<b>Case based scenario/ Applied Short notes</b> Systemic Pathology	Any 2 out of 3	2 x 6 marks = 12 marks
<b>Q.2 (b)</b>	<b>Write Short Notes</b> Topics covered in paper II	Any 3 out of 4	3 x 6 marks = 18 marks
<b>Q.3</b>	<b>Answer only in 2-3 Sentences</b> Topics covered in paper II	Any 5 out of 6	5 x 2 marks = 10 marks

#### **Section II**

<b>Q.4</b>	<b>Structured Long Question</b> Clinical Pathology	Any 1 out of 2	1 x 10 marks = 10 marks
<b>Q.5 (a)</b>	<b>Case based scenario/ Applied Short notes</b> Clinical Pathology	Any 2 out of 3	2 x 6 marks = 12 marks
<b>Q.5 (b)</b>	<b>Write Short Notes</b> Topics covered in paper II	Any 3 out of 4	3 x 6 marks = 18 marks
<b>Q.6</b>	<b>Answer only in 2-3 Sentences</b> Topics covered in paper II	Any 5 out of 6	5 x 2 marks = 10 marks

# Second M.B.B.S. Practical mark scheme

## Pharmacology

### Practical

○ Oral viva	30 marks
○ Prescription and Critical evaluation of a prescription	25 marks (10+10+5)
○ Table Exercise	10 marks
○ Short Practical Exercise (Clinical Pharmacology)	20 marks
○ Clinical Pharmacy	05 marks
○ Communication Skills	<u>10 marks</u>
Total	100 marks

### Division of marks in Pairs of examiners

○ Pair I	Oral viva	30 marks	All candidates
○ Pair II	Prescription and Critical evaluation of a prescription	25 marks	All candidates
	Communication Skills	10 marks	All candidates
○ Pair III	Short Practical exercise (Clinical Pharmacology)	20 marks	All candidates
	Table exercise	10 marks	All candidates
	Clinical Pharmacy	05 marks	All candidates

## Microbiology

### Practical

○ Oral viva (Clinical case based questions + Table viva)	30 marks
○ Exercise 1: Bacteriology staining (Gram / ZN stain)	20 marks
○ Exercise 2: Infection control practice	15 marks
○ Exercise 3: Parasitology exercise (stool / blood parasites)	20 marks
○ Exercise 4: Interpretation exercise (clinical case based)	<u>15 marks</u>
Total	100 marks

### Division of marks in Pairs of examiners (In case of 4 Examiners)

#### ❖ Pair I

○ Oral viva	30 marks (Half candidates)
○ Exercise 1: Bacteriology staining (Gram / ZN stain)	20 marks (All candidates)
○ Exercise 2: Infection control practice	15 marks (All candidates)

#### ❖ Pair II

○ Oral viva	30 marks (Half candidates)
○ Exercise 3: Parasitology exercise (stool / blood parasites)	20 marks (All candidates)
○ Exercise 4: Interpretation exercise (clinical case based)	15 marks (All candidates)

 **Division of marks in Pairs of examiners (In case of 6 Examiners)**

❖ **Pair I**

- Exercise 1: Bacteriology staining (Gram / ZN stain) 20 marks (All candidates)
- Exercise 2: Infection control practice 15 marks (All candidates)

❖ **Pair II**

- Exercise 3: Parasitology exercise (stool / blood parasites) 20 marks (All candidates)
- Exercise 4: Interpretation exercise (clinical case based) 15 marks (All candidates)

❖ **Pair III**

- Oral viva 30 marks (All candidates)

**Pathology**

 **Practical**

- Oral viva 30 marks
- Peripheral Smear 20 marks
- Urine 20 marks
- Blood Groups 15 marks
- HP Slides 15 marks

Total 100 marks

 **Division of marks in Pairs of examiners**

- Pair I Oral viva 30 marks All candidates
- Pair II Peripheral Smear 20 marks All candidates
- HP Slides 15 marks All candidates
- Pair III Urine 20 marks All candidates
- Blood Groups 15 marks All candidates

**Second M.B.B.S. Internal Mark scheme**

	<b>Theory</b>	<b>Practical</b>
<b>Internal Examination</b>	30	30
<b>Preliminary Examination</b>	30	30
<b>*Formative Evaluation</b>	40	40
<b>Total</b>	<b>100</b>	<b>100</b>
<b>*Formative Evaluation</b>	Day to Day assessment / System ending <b>(20 marks)</b>	Day to Day assessment / Skills assessment <b>(20 marks)</b>
	Log book /SDL <b>(10 marks)</b>	Journal + AETCOM <b>(10 marks)</b>
	Attendance <b>(10 marks)</b>	Attendance <b>(10 marks)</b>