



The Sikh Education Society's

Gurunanak College of Pharmacy NAGPUR-440026

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2.5.1: Mechanism of internal assessment is transparent and robust in terms of frequency and mode Examination Policy

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2.5.1: Mechanism of internal assessment is transparent and robust in terms of frequency and mode Examination Policy

The examination policy applies to all Staff members and students of UG and PG, Gurunanak College of pharmacy, the purpose of this Policy and the related procedures is to achieve coordination and consistent examination practices.

Internal Examination

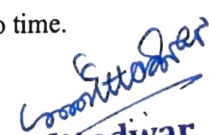
Internal Examinations for theory and practical will be arranged and conducted by the college. The institute follows the PCI and University system for conducting internal assessments. An internal examination committee in the college coordinates and conducts Internal examinations. The academic calendar mentions the proposed dates for all internal tests and it is circulated to all the stakeholders before the commencement of the academic session. The timetable of each class test is displayed on the institute notice board in advance. Question papers are designed according to PCI guidelines to achieve course outcomes. Training regarding the question paper designing, pattern, and formatting is given by the examination cell to all the faculty members. Each examiner submits question papers in advance in sealed envelopes to the examination cell. The record of this submission is maintained. The envelopes are opened in the examination rooms by the invigilators, 5 minutes before the beginning of the examination. After the valuation, the answer sheets are shown to students, and grievances, if there are any, are addressed by the concerned teacher in charge. The final marks and valued answer sheets are returned to the exam section within 15 days from the date of completion of the class test and marks are entered as per the documentation system. The memorandum of marks is also submitted along with this. At the end of the semester, the marks of all the tests, their average score, and marks of continuous evaluation are shown to students and are also displayed.

External Examination

External theory Examinations will be conducted by University .The detailed time table for examination will be displayed by university.

Examinations/Assessments

The scheme for internal assessment and end semester examinations is as prescribed by Rashtrasant Tukadoji Maharaj Nagpur University from time to time.


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Conduct of continuous Internal Evaluation:

Every semester students has to go through the Continuous Internal Evaluation (CIE). CIE is conducted as per University guidelines and university follows the PCI syllabus.

Internal Assessment: Continuous mode as per PCI Syllabus

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

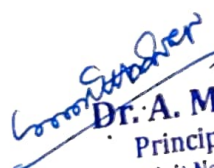
Scheme for awarding internal assessment: Continuous mode

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student – Teacher interaction	3	1.5
Total	10	05
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
Total	5	

Sessional Examination: Two class test exams shall be conducted for each theory / practical course as per the academic calendar of the college.. The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables. The average of two class test will be considered and continuous mode marks are added to average marks.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

Exam Type	Marks allotted	Duration
Theory	30	1.5Hr.
Practical	40	4Hr.


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Question paper pattern for theory Sessional

For subjects having University exams

I. Objective Type Questions/Short answer Questions (Answer 05 out of 7)	=5 x 2 = 10
II. Long Answers (Answer 1 out of 2)	=1 x 10 = 10
III. Short Answers (Answer 2 out of 3)	=2 x 5 = 10
Total	30 Marks

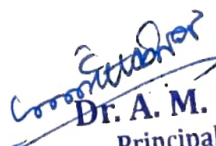
For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2)	=1 x 10 = 10
II. Short Answers (Answer 4 out of 6)	=4 x 5 = 20
Total	30 Marks

Question paper pattern for practical sessional examinations

I. Synopsis	10
II. Experiments	25
III. Viva-voce	05
Total	40 Marks

Promotion and award of grades A student shall be declared PASS and eligible for getting grade in a course of B. Pharm. program if he/she secures at least 50% marks in that particular course including internal assessment. For example, to be declared as PASS and to get grade, the student has to secure a minimum of 50 marks for the total of 100 including continuous mode of assessment and end semester theory examination and has to secure a minimum of 25 marks for the total 50 including internal assessment and end semester practical examination.


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Improvement of internal assessment A student shall have the opportunity to improve his/her performance in the Sessional exam component of the internal assessment. The re- conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

Re-examination of end semester examinations Reexamination of end semester examination shall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time

Tentative schedule of end semester examinations

Semesters	For Regular Candidates	For Failed Candidates
I, III, V and VII	November / December	May / June
II, IV, VI and VIII	May / June	November / December

Question paper pattern for end semester theory examinations

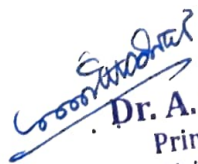
I. Objective Type Questions (Answer 5 out of 7)	=5x 3= 15
II. Long Answers (Answer 2 out of 4)	= 2 x 10 = 20
III. Short Answers (Answer 8 out of 10)	= 8 x 5 = 40
Total	=75marks

For 35 marks paper

I. Long Answers (Answer 1 out of 2)	= 1 x 10 = 10
II. Short Answers (Answer 5 out of 7)	= 5 x 5 = 25
Total	= 25 marks

Question paper pattern for end semester practical examinations

I. Synopsis	05
II. Experiments	25
III. Viva-voce	05
Total	35Marks


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Academic Progression

- No student shall be admitted to any examination unless he/she fulfills the norms prescribed by University. Academic progression rules are applicable as follows:
- A student shall be eligible to carry forward all the courses of I, II and III semesters till the IV semester examinations. However, he/she shall not be eligible to attend the courses of V semester until all the courses of I and II semesters are successfully completed.
- A student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of I, II, III and IV semesters are successfully completed.
- A student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of I, II, III, IV, V and VI semesters are successfully completed.
- A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms specified.
- A lateral entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of III and IV semesters are successfully completed.
- A lateral entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.
- A lateral entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified.
- Rules for Carry Forward The curriculum (including regulations, structure and syllabi) is in force from academic year 2018-19 and onwards for First Year B. Pharm, for academic year 2019- 20 onwards for Second Year B. Pharm., for academic year 2020-21 and onwards for Third Year B. Pharm., and for academic year 2021-22 and onwards for Final Year B. Pharm.
- The learners who were admitted to First Year B. Pharm. of 2015 pattern during the academic year 2017-18 or before & failed in the First Year B.Pharm. of 2015 pattern


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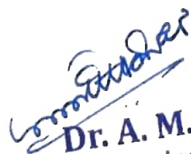
examination will have to take admission to Semester-III of Second Year B. Pharm. of 2018 pattern in academic year 2019-20 or onwards, provided that

a) Their result of F. Y. B. Pharm. of 2015 pattern is either pass or fails with A. T. K. T. The said students will have to take up additional remedial courses as follows.

b) The learners who were admitted to S.Y B. Pharm. of 2015 pattern during the academic year 2018-19 or before and fail in the S.Y B. Pharm. of 2015 pattern examination will have to take admission to Semester-V of Third Year B. Pharm. of 2018 pattern in academic year 2020-21 or onwards, provided that their result of S. Y. B. Pharm. of 2015 pattern is either pass or fails with A. T. K. T. The said students will have to take up additional remedial course as follows.

Project work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages). The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.


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2. CONTINUOUS EVALUATION GUIDELINES



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Pharmacy Council of India
New Delhi

Rules & Syllabus for the Bachelor
of Pharmacy (B. Pharm) Course

[Framed under Regulation 6, 7 & 8 of the Bachelor of
Pharmacy (B. Pharm) course regulations 2014]



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Tables-X: Schemes for internal assessments and end semester examinations semester wise

Semester I

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP101T	Human Anatomy and Physiology I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP102T	Pharmaceutical Analysis I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP103T	Pharmaceutics I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP104T	Pharmaceutical Inorganic Chemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP105T	Communication skills – Theory *	5	10	1 Hr	15	35	1.5 Hrs	50
BP106RBT BP106RMT	Remedial Biology/ Mathematics – Theory*	5	10	1 Hr	15	35	1.5 Hrs	50
BP107P	Human Anatomy and Physiology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP108P	Pharmaceutical Analysis I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP109P	Pharmaceutics I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP110P	Pharmaceutical Inorganic Chemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP111P	Communication skills – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
BP112RBP	Remedial Biology – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
Total		70/75[†]/80[‡]	115/125[†]/130[‡]	23/24[†]/26[‡] Hrs	185/200[†]/210[‡]	490/525[†]/ 540[‡]	31.5/33[†]/ 35[‡] Hrs	675/725[†]/ 750[‡]

*Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB) course.

†Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM) course.

‡ Non University Examination (NUE)

Semester II

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
Total		80	125	20 Hrs	205	520	30 Hrs	725

* The subject experts at college level shall conduct examinations



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11.2. Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table-XI: Scheme for awarding internal assessment: Continuous mode

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student – Teacher interaction	3	1.5
Total	10	5
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
Total	5	

Table- XII: Guidelines for the allotment of marks for attendance

Percentage of Attendance	Theory	Practical
95 – 100	4	2
90 – 94	3	1.5
85 – 89	2	1
80 – 84	1	0.5
Less than 80	0	0

11.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

Question paper pattern for theory Sessional examinations

For subjects having University examination

I. Multiple Choice Questions (MCQs)	=	10 x 1 = 10
OR		OR
Objective Type Questions (5 x 2) (Answer all the questions)	=	05 x 2 = 10
I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 2 out of 3)	=	2 x 5 = 10

Total	=	30 marks



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For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 4 out of 6)	=	4 x 5 = 20

Total	=	30 marks

Question paper pattern for practical sessional examinations

I. Synopsis	=	10
II. Experiments	=	25
III. Viva voce	=	05

Total	=	40 marks



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3. INTERNAL EXAMINATION SCHEDULE: SAMPLE



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GURUNANAK COLLEGE OF PHARMACY

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Accredited by NAAC & Gold Ranking in AICTE-CII Survey

Under the aegis of

THE SIKH EDUCATION SOCIETY, BEZONBAGH, NAGPUR - 440004

Exam Section

NOTICE FOR STAFF MEMBERS

Date:- 26/09/2019

All the staff members are hereby notified that the **Class Test I** for **B. Pharm. Sem.-I** (Academic session 2019-2020) will be held as per the following schedule.

Theory Examination: 01/10/2019 to 09/10/2019

TIME TABLE FOR CLASS TEST I OF B.PHARM Ist (SESSION 2019-2020)

DATE	B. PHARM. SEM-I PRACTICAL TEST-I TIMINGS: 9:30AM TO 1:30PM	B. PHARM. SEM-I THEORY CLASS TEST-I TIMINGS: 2:30 TO 3:30 PM
01/10/19 TUESDAY	BATCH A: PH-I (BAJ) BATCH B: HAP-I (MKB) BATCH C: PIC-I (AHD)	HUMAN ANATOMY & PHYSIOLOGY-I (ANM/BAJ)
03/10/19 THURSDAY	BATCH A: PA-I (KSM) BATCH B: PIC-I (AHD) BATCH C: HAP-I (MKB)	PHARMACEUTICAL ANALYSIS-I (SRM/MKB)
04/10/19 FRIDAY	COMMUNICATION SKILLS (RDD)(PRACTICAL)	COMMUNICATION SKILLS (THEORY) (RDD/PGG)
05/10/19 SATURDAY	-----	REMEDIAL MATHS (THEORY) (SAU) (TIME: 9:30AM TO 10:30AM)
07/10/19 MONDAY	BATCH A: HAP-I (MKB) BATCH B: PA-I (VBP) BATCH C: PH-I (BAJ)	PHARMACEUTICS-I (GAG/SKA)
09/10/19 WEDNESDAY	BATCH A: PIC-I (AHD) BATCH B: PH-I (BAJ) BATCH C: PA-I (ANM)	PHARMACEUTICAL INORGANIC CHEMISTRY (MMB/SRY)

Note: Timing for examination for **B. Pharm. Sem. I (Theory Class Test-I)** from Monday to Friday will be from 2.30p.m. to 3.30p.m

On Saturday the time for Theory Class Test-I from 9:30AM TO 10:30AM.

***Practical Test will be held According to regular time table of respective batches

Secretary Examination Committee

(Mr. T. M. Rasala)

Chairperson

(Dr. A. M. Ittadwar)

GNC/Exam/18-19/Notice No.79



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THE SIKH EDUCATION SOCIETY, BEZONBAGH, NAGPUR - 440004
Exam Section

NOTICE FOR FACULTY

Date:-08/08/2019

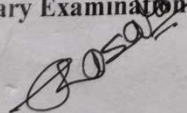
All the faculty members are hereby notified that the **Class Test I of B. Pharm. Sem. VII** (Academic session 2019-2020) will be held as per the following schedule.

Theory Examination: 19/08/2019 to 24/08/2019.

DATE	B. PHARM. SEM VII
	TIMINGS: 11:30AM TO 1:00PM
19/08/2019 MONDAY	DOSAGE FORM TECHNOLOGY-I (SPP/MMB)
20/08/2019 TUESDAY	PHARMACEUTICAL MEDICINAL CHEMISTRY-III (SBW/KSM)
21/08/2019 WEDNESDAY	PHARMACEUTICAL ANALYSIS-III (VAK/GKL)
22/08/2019 THURSDAY	CLINICAL PHARMACOTHERAPEUTICS-II (BAJ /KBB)
23/08/2019 FRIDAY	PHARMACOGNOSY AND PHYTOCHEMISTRY-V (MMB/VBP)
24/08/2019 SATURDAY	BIOPHARMACEUTICS AND PHARMACOKINETICS (SBW/SRY)

Note: Timing for examination of **B. Pharm. Sem. VII** from Monday to Saturday will be from **11.30am to 1.00pm.**

Secretary Examination committee


(Mr. T. M. Rasala)

Chairperson


(Dr. A. M. Itadwar)

GNCPC/Exam/19-20/Notice N



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Exam Section

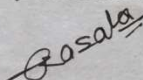
NOTICE FOR FACULTY

Date:-25/09/2019

All the staff members of **B. Pharm. Sem. VII** are hereby notified that the **Practical Sessional Examination** will be conducted from dt.: 30/09/2019 to 11/10/2019 in regular Practical of respective batches.

During the Practical Sessional Examination all the students are required to attend the regular theory classes.

Secretary Examination committee


(Mr. T. M. Rasala)

Chairperson


(Dr. A. M. Itadwar)

GNCP/Exam/19-20/Notice No.81



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Exam Section

NOTICE FOR FACULTY & STUDENTS

Date:-05/10/2020

All the Faculty & Students are notified that the Class Test I for B. Pharm. Sem. III (Academic session 2020-2021) will be held as per the following schedule through the online Google Classroom.

Theory & Practical Examination: 12/10/2020 to 15/10/2020

TIME TABLE FOR CLASS TEST- I

DATE	B. PHARM. SEM III	
	THEORY	PRACTICAL
	MONDAY TO THURSDAY TIMINGS: 11:00-11:40AM	MONDAY TO THURSDAY TIMINGS: 1:00-1:15PM
12/10/2020 MONDAY	PHARMACEUTICAL ORGANIC CHEMISTRY-II (ANM)	PHARMACEUTICAL ORGANIC CHEMISTRY-II (ANM)
13/10/2020 TUESDAY	PHYSICAL PHARMACEUTICS (GKL)	PHYSICAL PHARMACEUTICS (GKL)
14/10/2020 WEDNESDAY	PHARMACEUTICAL MICROBIOLOGY (KBB)	PHARMACEUTICAL MICROBIOLOGY (KBB)
15/10/2020 THURSDAY	PHARMACEUTICAL ENGINEERING (SAU)	PHARMACEUTICAL ENGINEERING (SAU)

Secretary Examination committee

(Mr. T. M. Rasala)

Chairperson

(Dr. A. M. Itadwar)

GNC/Exam/20-21/Notice No.94



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Exam Section

NOTICE FOR FACULTY & STUDENTS

Date:-05/10/2020

All the Faculty & Students are notified that the Class Test I for B. Pharm. Sem. V (Academic session 2020-2021) will be held as per the following schedule through the online Google Classroom.

Theory Examination: 12/10/2020 to 16/10/2020.

TIME TABLE FOR CLASS TEST- I

DATE	B. PHARM. SEM V	
	THEORY	PRACTICAL
	MONDAY TO FRIDAY TIMINGS: 11:00-11:40AM	MONDAY TO FRIDAY TIMINGS: 1:00-1:15PM
12/10/2020 MONDAY	MEDICINAL CHEMISTRY-II (PGG)	---
13/10/2020 TUESDAY	INDUSTRIAL PHARMACY-I (MNB)	INDUSTRIAL PHARMACY-I (MNB)
14/10/2020 WEDNESDAY	PHARMACOLOGY-II (VBP)	PHARMACOLOGY-II (VBP)
15/10/2020 THURSDAY	PHARMACOLOGY & PHYTOCHEMISTRY-II (SKA)	PHARMACOLOGY & PHYTOCHEMISTRY-II (SKA)
16/10/2020 FRIDAY	PHARMACEUTICAL JURISPRUDENCE (VVK)	---

Secretary Examination committee

(Mr. T. M. Rasala)

Chairperson

(Dr. A. M. Ittadwar)

GNCPEXAM/20-21/Notice No.05



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GURUNANAK COLLEGE OF PHARMACY
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ACCREDITED BY NAAC
UNDER THE AEGIS OF
THE SIKH EDUCATION SOCIETY, BEZONBAGH, NAGPUR - 440004
Exam Section

NOTICE FOR FACULTY & STUDENTS

Date:-05/10/2020

All the Faculty & Students are notified that the Class Test I for B. Pharm. Sem. VII (Academic session 2020-2021) will be held as per the following schedule through the online Google Classroom.

Theory Examination: 12/10/2020 to 15/10/2020.

DATE	B. PHARM. SEM VII	
	THEORY	PRACTICAL
	MONDAY TO FRIDAY TIMINGS: 11:00-11:40AM	MONDAY TO FRIDAY TIMINGS: 1:00-1:15PM
12/10/2020 MONDAY	INSTRUMENTAL METHODS OF ANALYSIS (GAG)	INSTRUMENTAL METHODS OF ANALYSIS (GAG)
13/10/2020 TUESDAY	INDUSTRIAL PHARMACY-II (AHD)	
14/10/2020 WEDNESDAY	PHARMACY PRACTICE (SRV)	-----
15/10/2020 THURSDAY	NOVEL DRUG DELIVERY SYSTEM (KSM)	-----

Secretary Examination committee

(Mr. T. M. Rasala)

Chairperson

(Dr. A. M. Itadwar)

GNCPE/Exam/20-21/Notice No.96



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Exam Section

NOTICE FOR FACULTY & STUDENTS

Date:-05/10/2020

All the Faculty & Students are notified that the Class Test I for M. Pharm. Sem. III (Academic session 2020-2021) will be held as per the following schedule through the online Google Classroom.

Theory Examination: 15/10/2020.

DATE	M. PHARM. SEM III	
	THEORY	TIMINGS
15/10/2020 THURSDAY	RESEARCH METHODOLOGY & BIOSTATISTICS (TME)	11AM TO 11:40AM

Secretary Examination committee

(Mr. T. M. Rasala)

Chairperson

(Dr. A. M. Ittadwar)



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4. INTERNAL EXAMINATION QUESTION PAPER: SAMPLE



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GURUNANK COLLEGE OF PHARMACY

Class test -I (Session 2019-20)

SUBJECT: Pharmaceutical Analysis-I

B. Pharm. Sem. I

Time: 60 Min.

Date: 03/10/2019

Max. Marks: 30

Instructions : (1) Q.1 is compulsory.
(2) Draw a well labelled diagram whenever necessary.

Q 1] Solve the following

[10M]

- Enlist the sources of impurities and write the full form of IP, BP, USP & NF.
- What are primary and secondary standards?
- Define Normality and Molarity.
- What are masking and demasking agents? Give its examples.
- What are the different types of Non-aqueous solvents? Write its examples.

Q 2] Solve any one.

[10M]

- Write in detail about steps involved in Gravimetric type of analysis.
- Write in detail about Acid-Base indicator theories with suitable examples and neutralization curves.

Q 3] Solve any Two.

[10M]

- Define error. Write its types and steps for its minimization.
- Write in detail about Co-precipitation and post precipitation.
- What are Complexometric titration? Write its type giving suitable example.

GNCP/Exam/B.Pharm/19-20/CT-I/BP202T




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To Create Globally Competent Pharmacist
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NAAC Accredited
Practical Class test –I (Session 2019-20)
Subject: Herbal Drug Technology

B. Pharm. VI Sem Date: Batch A : 25/02/2020
Batch B : 26/02/2020
Batch C : 24/02/2020

Time: 4 hrs Max. Marks: 40

Q.1 Synopsis (10M)

Q.2. Major Experiment : To determine the percentage of total aldehyde content (calculated as citral) in the given sample of lemon oil. **(15M)**

Q.3. Minor Experiment : To prepare and evaluate Triphala Churna **(10M)**

Q.4. Viva Voce (05M)

.....



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5. INTERNAL EXAMINATION ASSESSMENT SHEET: SAMPLE



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 Mauza Nari, kh. No. 81/1, Kamgar Nagar, Nari, Nagpur - 440026
 NAAC Accredited
 B. Pharm. / M. Pharm. III/IV/VI/VIII Semester Sessional Examination 2018-2019

Roll No 55	Name Sahil Prakash Wadhvani								
Subject Pharmaceutical Organic Chemistry							Date 18/02/2019		
Q. No.	01	02	03	04	05	06	07	Investigator Sign.	Examiner Sign.
Marks	09	06	8 1/2 = 23.5	24	30 = 12	15		<i>[Signature]</i>	<i>[Signature]</i>

START WRITING BELOW THIS LINE

Q1] Ans a] Aldehydes are more reactive than ketone can be justified by two factors -

- 1) Steric factor
- 2) Electronic factor

1) Aldehydes have one hydrogen atom attached to the carbonyl group while ketones have a aryl or alkyl group which increases the crowding effect hence aldehydes can easily undergo any reaction because it has a smaller atom hydrogen to it.

$$\begin{array}{c} R-C=O \\ | \\ H \end{array}$$

Aldehyde

$$\begin{array}{c} R-C=O \\ | \\ R' \end{array}$$

Ketone



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No. 175

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NAAC Accredited

B.Pharm. / M.Pharm. I / III / V / VII

Class Test - I/II 2019 - 2020

Date:- 9/10/2019

Roll No.	Name Akreen Khan					Invigilator Sign.	
1	Subject Pharmaceutical inorganic chemistry.					<i>[Signature]</i> 9/10/19	
Q. No.	01	02	03	04	05	06	Total / Examiner Sign.
Marks	07	07	13				28 = 14 30 = 15 AA

START WRITING BELOW THIS LINE

- Q1] 1] Potassium iodide.
- a) It is crystalline powder
 - b) It is odourless and colourless
 - c) It is insoluble in water and glycerol
- use: It is used as mild expectorants
- 2] Ferrous sulphate :-
- a) It is blue colour powder
 - b) It is soluble in water
- use: It is used as haematinics

P.T.O



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UNDER THE AEGIS OF

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B.PHARM FIRST YEAR (Academic Session 2019-20)

Class:-B. PHARM. SECOND SEMESTER

Subject: Pharmaceutical Organic Chemistry

Practical Test-I

Date:- 24 & 25/02/20

BATCH A - 26/02/2020

Sr. No.	Name of Students	Practical Sheet No.	Signature
BATCH-A			
01	AISHWARYA UMESHKUMAR MOHNANI	2029	<i>[Signature]</i>
02	AKANKSHA DEVENDRA MADAVI	2029	<i>[Signature]</i>
03	ARFIYA ANAM MOHD ESSA	2014	<i>[Signature]</i>
04	CHAITALI VINAYAK LONARE	2015	<i>[Signature]</i>
05	DISHA NANAJI PANBUDE	2016	<i>[Signature]</i>
06	DIVYA LOKESH JETHANI	2017	<i>[Signature]</i>
07	HEENA SHRADHANAND DONGRE	2018	<i>[Signature]</i>
08	JANVI ARUN TIKLE	2019	<i>[Signature]</i>
09	KALYANI PURUSHOTTAM ITANKAR	2020	<i>[Signature]</i>
10	KOMAL NITIN MENDHE	2021	<i>[Signature]</i>
11	MANISHA KAMLAJI GHUGE	2022	<i>[Signature]</i>
12	MOHINI SHYAMKUMAR CHAINANI	2023	<i>[Signature]</i>
13	MOKSHADA SANJAY AGASHE	2024	<i>[Signature]</i>
14	NAVJOOT KAUR LAKHVINDER SINGH RAJPUT	2025	<i>[Signature]</i>
15	NEHA VIJAY NANWANI	2026	<i>[Signature]</i>
16	NISHA DEELIP AHUJA	2027	<i>[Signature]</i>
17	PRATIKSHA FULCHAND TEMBHURKAR	2028	<i>[Signature]</i>
BATCH-B			
18	RAJINDER KAUR KULDEEP SINGH NARDE	1031	<i>[Signature]</i>
19	RAZI ASEMA MUJAHID	1032	<i>[Signature]</i>
20	ROHINI SANJAYRAO SONARE	1033	<i>[Signature]</i>
21	ROSHNI PARASRAM KUNGWANI	1029	<i>[Signature]</i>
22	RUTUJA PANDURANG SONAWANE	1030	<i>[Signature]</i>
23	SAKSHI BALKRUSHNA PILLARE	1028	<i>[Signature]</i>
24	SAYED AFSHANAZ HABIB	1027	<i>[Signature]</i>
25	TRISHALI SUBHASH RAUT	1026	<i>[Signature]</i>
26	URVASHI MAHESH MENGHANI	1025	<i>[Signature]</i>
27	URVASHI SHARADCHANDRA KALLAR	1024	<i>[Signature]</i>
28	ZARRIN AYESHA MOHAMMAD HASHIM	1023	<i>[Signature]</i>
29	ABHAY MAHADEORAO PANDE	1022	<i>[Signature]</i>
30	ALWIN AMBADAS KALAMBE	1021	<i>[Signature]</i>



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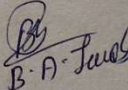
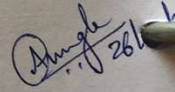
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31	AMAN SANJAY JAISWAL	1022	1022
32	ARPAN MADHUSUDAN GUPTA	1019	1019
33	AYUSH SUDEEP JAIN	1018	1018
34	BHAVESH PRAKASH RUGHWANI	1017	1017
BATCH-C			
35	DARSHAN UDARAM KHAPEKAR	1016	1016
36	GYANCHAND HARILAL JHAMBIA	2003	2003
37	KUNAL CHANDRABHAN MASRAM	2005	2005
38	MANISH LALCHAND UDASI	2008	2008
39	MAYUR ANIL SHERJE	2011	2011
40	MD ALKAAF RAZA AKIL KACHHI	1012	1012
41	NIKHILSINH DIPAKSINH THAKUR	1014	1014
42	NIVRUTTI DEEPAK TANK	1013	1013
43	PANKAJ TATYAJI BALKI	1015	1015
44	PIYUSH GOPICHAND PACHKHANDE	2007	2007
45	RAHUL RAMESH BHAGWAT	1011	1011
46	RITESH ARJUN HINGE	2012	2012
47	SAHIL KHEMRAJ PARDHI	2002	2002
48	SANSKAR SANTOSH SAHU	2009	2009
49	SAURABH VASANTRAO BOKDE	2004	2004
50	SHASHANK GANESH PARTEKI	2006	2006
51	SHRYASH RAVINDRA MANDAVGADE	2001	2001
52	YASH BHARAT SONAWANE	2010	2010

Total No. of Student:- 52

No. of Students Present:- 52

No. of Students Absent:- Nil


B. A. Jaiswal

A. N. Munge
Name & Signature of Examiner/s



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6. CONTINUOUS MODE ASSESSMENT: SAMPLE



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GURUNANK COLLEGE OF PHARMACY, NAGPUR-26

B.PHARM SECOND YEAR (III SEMESTER)

Academic Session 2018-19

Marks Shown list and Data of (theory and continuous assessment mode) marks

Continuous mode: A: Attendance Out of 4 marks- 1 Mark for 80 to 84%

2 Marks for 85 to 89 %

3 Marks for 90 to 94 %

4 Marks for 95 to 100 %

B: Student teacher interaction : 3 Marks

C: Assignments : 3 Marks

Sr.No.	Date Name of the Student	First Sessional	Second Sessional	Avg X	Cont mode			Total Y	Grand total (X+Y)	sign
					A	B	C			
1	Adiba Daud Khan	9.5	12	11	04	03	03	10	21	<i>Adiba Khan</i>
2	Aishwarya Krishnakumar Shahu	7.5	7.5	7.5	02	02	02	06	14	<i>Aishwarya Shahu</i>
3	Amruta Kailas Lakhe	9.5	10.5	10	03	03	03	09	19	<i>Amruta Lakhe</i>
4	Ankita Mukesh Shahu	8.5	8	07	02	02	02	06	14	<i>Ankita Shahu</i>
5	Ashwini Gajanan Dhakne	8.75~09	9.5	9.5	03	03	03	09	19	<i>Ashwini Dhakne</i>
6	Chetana Jeetendra Shelote	10	11.5	11	04	03	03	10	21	<i>Chetana Shelote</i>
7	Dimple Sanjay Sahare	07	7.5	7.5	04	03	03	10	18	<i>Dimple Sahare</i>
8	Dipti Chandu Pirwani	06.5	10	8.5	04	03	03	10	19	<i>Dipti Pirwani</i>
9	Dipti Maroti Masram	08.5	09	09	04	03	03	10	19	<i>Dipti Masram</i>
10	Disha Girish Patel	09.5	9.5	9.5	04	03	03	10	20	<i>Disha Patel</i>
11	Divya Atram	08	9.5	09	04	03	03	10	19	<i>Divya Atram</i>
12	Ekta Ashok Tiwari	10.5	10.5	10.5	04	03	03	10	21	<i>Ekta Tiwari</i>
13	Harshali Vilas Chonde	10	10.5	10.5	04	03	03	10	21	<i>Harshali Chonde</i>
14	Kajal Jagdish Bhede	09.5	13	11.5	04	03	03	10	22	<i>Kajal Bhede</i>
15	Kajal Pradeep Kesare	10	10.5	10.5	04	03	03	10	21	<i>Kajal Kesare</i>
16	Kalyani Gajanan Thakre	09	12	10.5	04	03	03	10	21	<i>Kalyani Thakre</i>
17	Kanchan chokharaj	11.5	13	13	04	03	03	10	23	<i>Kanchan Chokharaj</i>



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Name - Ahtesham Taza 2/7/18
Test - 2
pharmaceutical engineering

J. Good

20

Solve any four out of 5 que.
Draw a well labelled dia. wherever necessary

Ques 1) Explain the different factors affecting size reduction.

2) Describe principle, construction, and working of size reduction equipment, used to reduce the particle size of ~~veg~~ vegetable matter.

3) What do you mean by sieve analysis gives different advantages and disadvantages of this process.

4) Draw a well labelled diagram of edge runner mill and end runner mill

5) Short notes on any two:
a) grades of powder
b) bond's theory of size reduction
c) elutriation.



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PHARMACEUTICAL ENGINEERING

ASSIGNMENT

Cyclone separator

B. Pharm 2nd year

Academic session: 2018-2019

Name : : Divya S. Atram

Roll no : 12

Institute: Gurunank College Of Pharmacy



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≡ Modifications of cyclone separator

- To improve the cyclone efficiency, following modifications are required

OPTIMUM INLET VELOCITY

As in the cyclone separator, the separation takes place by centrifugal force and the centrifugal force is resultant of inlet velocity, so it is very important to maintain minimum velocity, the optimum design of inlet is desired.

MODIFIED DIP TUBE

To avoid turbulence flow to have smooth exit gas flow, dip tubes are so designed that smooth exist is followed after cyclonic effect. so, there is no extra pressure drops due to turbulence flow.

MODIFIED CYCLONE BOTTOM

The bottom of cone can be designed in such a way that the velocity of Gases are dropped to the minimum level and not capable of carrying back the finer particle of materials collected.

CYCLONE DISCHARGE

The material collected in the cyclone is discharged through rotary air lock or flap valves. Rotary air locks takes care for trouble free running and preventing the substantial quantity of false air.

ADVANTAGES OF MODIFIED CYCLONE SEPERATOR

- Energy across the cyclone reduces by 15 to 25%
- The energy saving of suction fan is approximately by 5-10%
- Separation efficiency improves up to 95-99%

Conclusion: cyclone Separator are reliable devices widely used in industry. There are many parameters which must be considered when designing a cyclone including geometry of cyclone, flow rate and inlet geometry.