



PUSHPAGIRI COLLEGE OF PHARMACY THIRUVALLA



ACADEMIC CALENDAR 2021-2022



NAAC Accredited With Grade "A"

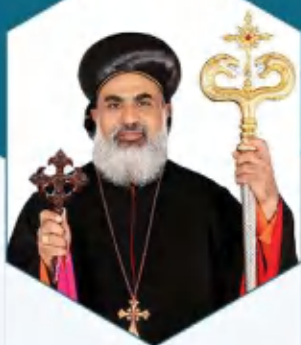
Medicity Campus, Perumthuruthy P.O., Tiruvalla - 689107.

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OUR PATRON



His Grace Rev. Dr. Thomas Mar Koorilos



Sri. Jacob Punnoose IPS
Principal Advisor



Rev Fr. Jose Kallumalickal
CEO



Rev. Fr. Aby Vadakkumthala
Director, Medicity



Dr. Santhosh M. Mathews
Principal



Rev. Fr. Varghese Manalel
Spiritual Director



PUSHPAGIRI COLLEGE OF PHARMACY



About us:

Pushpagiri Medical Society established Pushpagiri College of Pharmacy in 2004 with an annual intake of 60 to mold high quality pharmacist's workforce to suit the requirements of the industry, hospital, research and community. The college is approved by Govt. of Kerala and Pharmacy Council of India. The college is affiliated to Kerala University of Health Sciences, Thrissur. The institution is upgraded to PG institution from 2011-2012 academic year onwards. Pushpagiri College of Pharmacy is the first pharmacy college in Kerala, accredited with "A" grade in the first cycle by NAAC.

Mission:

- ❖ To work towards a knowledge society with a life in abundance, through science and technology, improving health care of our immediate community, state, country and the world at large.

Pushpagiri College of pharmacy mainly focuses on providing a value based learning which makes you a person and a professional throughout your life. Together with the academic development, the overall development of the individual is our concern.



Salient features:

- ❖ Excellent infrastructure
- ❖ Fully equipped labs according to specifications by Governing bodies.
- ❖ Well maintained CIF with sophisticated instruments.
- ❖ Highly qualified, international university experienced & dedicated academic illumineries / core faculty members.
- ❖ Wi-Fi enabled campus.
- ❖ Well established Research Laboratory

Vision

“We care..... God cures.”

Administration

Pushpagiri College of Pharmacy is a Christian minority institution owned by Pushpagiri Medical Society. Pushpagiri Medical Society is promoted by the Malankara Catholic Archdiocese of Tiruvalla. His Grace Rev Dr. Thomas Mar Koorilos, The Archbishop is the Patron of Pushpagiri Medical Society and its Institutions. Rev. Fr. Jose Kallumalickal is the Secretary of the Pushpagiri Medical Society and CEO of Pushpagiri Institutions. Shri. Jacob Punnoose, IPS (Retd. DGP, Govt of Kerala) is the Principal Advisor of Pushpagiri Institutions. Rev. Fr. Aby Vadakkumthala is the Director of Pushpagiri Institutions and Dr. Santhosh M. Mathews is working as Principal of Pushpagiri College of Pharmacy. Rev. Fr. Varghese Manalel is the Spiritual Director of Medicity Campus.



ACADEMIC ADMINISTRATION



Prof. Dr. Santhosh M. Mathews
Principal



Dr. Christy K. Jose
Vice Principal -Academics



Dr. Nithin Manohar R.
Vice Principal - General Affairs

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY



Dr. Presannakumaran P.N.
Professor & HOD



Dr. Christy K. Jose
Professor



Mrs. Mincy Mathew
Associate Professor



Mrs. Anju V.
Assistant Professor



Mrs. Saira Susan Varghese
Assistant Professor



Mrs. Jinijith S.
Assistant Professor



Mrs. Shiipa S. Kurup
Assistant Professor



DEPARTMENT OF PHARMACEUTICAL CHEMISTRY...



Mrs. Ragisha Francis
Assistant Professor



Mrs. Divya V.
Assistant Professor



Ms. Christeena Mary John
Assistant Professor

DEPARTMENT OF PHARMACEUTICS



Prof. Dr. Santhosh M. Mathews
Professor & HOD



Mrs. Deepthi Mathew
Associate Professor



Mrs. Bincy K. Chacko
Associate Professor



Mrs. Anjana M.N.
Assistant Professor



Mrs. Jyothilakshmi V. Nair
Assistant Professor



Ms. Liby Tresa Francis
Assistant Professor



Mrs. Sreekavya B.
Assistant Professor



DEPARTMENT OF PHARMACOGNOSY



Mrs. Jeenu Joseph
Associate Professor & HOD



Mrs. Anju A. Varghese
Associate Professor



Mrs. Lissy S.
Assistant Professor

DEPARTMENT OF PHARMACY PRACTICE



Dr. Nithin Manohar R.
Professor & HOD



Mrs. Rani Manju
Associate Professor



Mrs. Malini S.
Associate Professor



Mrs. Archana Vijai
Assistant Professor



Mrs. Pheba Susan Thomas
Assistant Professor



Dr. Jomin George Joseph
Assistant Professor



Ms. Julie Mariam Joshua
Assistant Professor



Mrs. Merin T. Koshy
Assistant Professor



DEPARTMENT OF PHARMACOLOGY



Dr. Shirdy John
Professor & HOD



Mrs. Emily James
Associate Professor



Mrs. Preethu P. John
Associate Professor



Ms. Neethi Shaju
Assistant Professor



Mrs. Anjana George
Assistant Professor



Mrs. Sumi James
Assistant Professor



Ms. Seethal James M.
Assistant Professor



Ms. Iyrin Ahraham
Assistant Professor



Ms. Sherly Eapen
Assistant Professor



RULES AND REGULATIONS

1. General Discipline

- Students should maintain a sense of decorum and discipline at all times, both inside and outside the college.
- Smoking, drinking alcohol, chewing, snuffing, consumption of intoxicating substances, gambling, ragging, political activities, etc. are totally prohibited.
- Personal belongings like cameras, tape recorders, radios, cellular phones, etc. are not permitted to be taken inside the College Campus. However, permission will be granted on some occasions.
- Students should park their vehicles in the space ear- marked for the same.
- Do not misuse electricity, water, gas, chemical, crude drugs and stationery.
- Students are forbidden to organize or attend any meeting within the College Campus or collect money for any purpose or circulate any notice among themselves or affix any circular on the Notice Board or elsewhere without the prior written permission of the Management / Principal.
- Students should treat the College property with special care and consideration. They should not make any marking on the furniture /walls/floor/workbench tops, etc. Any damage or destruction of the college property will be punishable individually or collectively.
- All students must respect and obey staff and authorities of the institution.

2. Medium of Instruction

- ❖ The medium of instruction shall be English; all students are directed to acquire the right proficiency in the English language.

3. Holidays

- ❖ National holidays and holidays announced by the State Government / Management from time to time, will be followed.

4. Telephone calls

- ❖ Students are not allowed to make/receive any telephone calls directly through the college telephone. However, important messages by parents/guardians will be conveyed to them promptly.
- ❖ Use or carrying of mobile phone by the students are not allowed in the class/lab/exam hall. Violation of the rule will lead to sthct disciplinary actions by the authorities.

5. Physical Fitness & Medical Check-ups

- ❖ All candidates should submit a physical fitness certificate to be obtained from a Medical Officer in service not below the rank of an Assistant Surgeon.



- ❖ All candidates are required to undergo thorough medical check-ups as directed by the management.
- ❖ Candidates found medically unfit will not be admitted to the course.

6. Personal Appearance

- ❖ Cultivating professional outlook and culture is of prime importance in this institution.
- ❖ All students must present themselves neat and clean on all occasions.
- ❖ Regular gentleman haircut and daily shaving is compulsory for boys.

7. Dress Code

- ❖ Uniform is compulsory in the campus except special occasions when permission is granted by the Principal or Management
- ❖ Boys should wear formal pants and shirt.
- ❖ Jeans and T-shirt are not allowed.
- ❖ All students must wear white over coats bearing name plates in the practical classes.
- ❖ All students must wear college uniform and ID during hospital training.

8. Courses

- ❖ The Bachelor of Pharmacy (B.Pharm) is a professional degree program spread over a period of eight semesters (four academic years).
- ❖ Clinical training for B.Pharm course will be provided at Pushpagiri Medical College Hospital, Thiruvalla.

9. Payments

- ❖ Tuition fees should be paid as per the criterion fixed by the Management/ Courts of Law in one instalment at the beginning of each academic year.
- ❖ Fees, once remitted, will not be refunded at any point of time.
- ❖ All other incidental expense should be borne by the students as and when directed by the Principal/Management.
- ❖ If any candidates discontinues/leaves the institution after closing of admission in the first year or discontinues/leaves in the subsequent years, he/she is liable to pay fees for the remaining years i.e ;fees for the whole course as directed by the authorities.
- ❖ Transfer Certificates and other certificates will be issued only after clearing all dues with the college and hostel.

10. Caution deposit

- ❖ All students are required to remit a substantial amount (refundable) as caution deposit as directed by the authorities.
- ❖ Dues if any will be deducted from caution deposit at the time of final exit.



- ❖ Accounts shall be settled only after the satisfactory completion of the course.
- ❖ Breakage of glasswares / models/ damage to furniture/ equipments/ charts/ loss of chemicals/ crude drugs, etc. are to be reported to the college office immediately.
- ❖ Breakage charges, if any, should be cleared before the registration for the university exam in each year.

11. Time Schedule

- ❖ Prayer – The day in the college begins with prayer at 8.55 am. All staff and students are directed to participate in the most auspicious event of the day.
- ❖ Classes- Regular classes will be conducted from Monday to Saturday, during the academic session as per the prescribed time table. Classes will start at 9.00 am every day or announced from time to time by Principal.
- ❖ Attendance will be taken on subject wise. A minimum of 80% attendance in each subject (Theory and Practical separately) is compulsory for appearing the University Examinations. Late comers will be forbidden from attending the class concerned. Absentees should produce authentic leave letter, duly signed by the parent/guardian to attend the subsequent classes.
- ❖ All students must be present in the examination hall (Theory/Practical) as per the schedule announced by the university or college authorities.
- ❖ Hall ticket, university ID and medical certificate (as applicable) is mandatory for appearing university examinations.

12. Library assignments

- ❖ Students shall be allowed to enter the library only on the submission of their identity cards at the counter.
- ❖ All are required to maintain strict silence inside the library.
- ❖ Discussions are strictly prohibited inside library.
- ❖ Time assigned for library work should be exclusively utilized for that purpose only without any compromise.
- ❖ Books and periodicals shall be issued on request, in writing, at the prescribed time on all working days.
- ❖ These are to be returned on the same day with due endorsements.
- ❖ Damages to books / periodicals will be looked into very seriously. Appropriate compensation shall be levied.

13. Laboratory assignments

- ❖ All students must wear neat and clean lab coats inside the laboratory. Personal precautions, if any, should be taken by the student themselves.
- ❖ All students should maintain strict discipline while inside the laboratory.
- ❖ Proper endorsement should be obtained from the teacher before the commencement of each and every experiment.



- ❖ Practical records are to be maintained properly and regularly. These are to be made available for evaluation or verification by the authorities.
- ❖ Verified, evaluated and certified practical records are mandatory for appearing university practical examinations.

14. Internal assessments (Statutory)

- ❖ All students must attend all class tests and Sessional examinations conducted periodically in every subject (Theory/Practical/Viva).
- ❖ A report regarding the performance of the students in sessional examination, percentage of the attendance, and academic performance will be forwarded to the guardian periodically for evaluation and suitable endorsement.
- ❖ The report must be returned after due endorsement by the parents or guardian positively.
- ❖ A minimum of 50% marks (theory and practical separately) is mandatory for registering university examinations in each subject.

15. Total participation and duty consciousness.

- ❖ All students should participate in all the academic / professional / extra-curricular / social activities organized by the college or sponsored by the Management / Statutory bodies.

16. Ragging

- ❖ Ragging is defined as any act of physical or mental abuse (including bullying and exclusion) targeted at another student (fresher or otherwise) on the ground of colour, race, religion, caste, ethnicity, gender (including transgender), sexual orientation, appearance and nationality,
- ❖ As per the directions of the Honourable Supreme Court order (SLP (C) No.24295/2004 and SLC No.24296 – 24299/2004) and Kerala University of Health Sciences ragging is strictly banned in all the member institutions.
- ❖ Any person indulged in ragging in the past or it is noted later that he has indulged in ragging, admission may be refused or he shall be expelled from the institution.
- ❖ Any person who directly or indirectly involved in the act of ragging, if proved, may get an imprisonment up to two years and will be fined as per rule.
- ❖ Any person punished for ragging will be expelled from the institution.

17. Covid 19 Protocols

- ❖ All students must follow Covid-19 protocols and guidelines issued by Government of Kerala, Kerala University of Health Sciences and Pushpagiri Medical College Hospital Covid Protocol Committee from time to time.
- ❖ All Students must be vaccinated against Covid-19 as per the Government of Kerala and Health authorities guidelines.



ABSTRACT OF RULES AND REGULATIONS FOR B.PHARM., M.PHARM AND PHARM D BY PHARMACY COUNCIL OF INDIA AND KERALA UNIVERSITY OF HEALTH SCIENCES

BACHELOR OF PHARMACY (B.PHARM)

Governing Bodies:

The course of study is governed by Pharmacy Council of India and Kerala University of Health Sciences.

Eligibility for admission:

Pass in Higher secondary or +2 or VHSE or equivalent examination with 50% aggregate in the following subjects, Physics, Chemistry and Biology/Mathematics/ Computer Science/Biotechnology.

Duration of Course:

The course of study for B. Pharm shall extend over a period of eight semesters (four academic years) and six semesters (three academic years) for lateral entry students.

Medium of instruction:

Medium of Instruction should be English

Attendance:

Candidate is required to put in minimum 80% of attendance in both theory and practical separately in each subject before admission to examination. A candidate lacking the prescribed attendance in any one subject, in theory or practical, shall not be permitted to admit for the entire examination. He will have to make up for the shortage subsequently to appear for the next university examinations.

Regulation for condonation of lack of attendance:

As per the concerned University Regulations.

Internal Assessment:

Two Sessional exams shall be conducted for each theory/practical course as per the schedule fixed by the college(s). The average marks of two Sessional exams shall be computed for internal assessment. 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.

Internal assessment: Continuous mode

The Continuous mode of Internal Assessment shall be awarded for 10 marks by including Attendance (4 marks), Academic Activities (3marks), and Student Teacher interaction (3marks).

Practical : Students are expected to perform the number of experiments listed in the respective syllabus. Students are required to maintain practical records for each of the practical subject and should be produced at the time of practical examination to be certified by the external examiner. Marks shall be awarded out of maximum of 10 to each of the practical exercises. While awarding the sessional marks for practical experiments, the following consideration should be taken in to account.

- ❖ Marks for practical experiments shall be awarded on the basis of performance of the candidate, manipulative skill, results, knowledge of the experiments, regularity in recording the reports and viva-voce.
- ❖ The remaining 10 marks of practical sessional marks will be on the basis of a practical sessional examination conducted at the end of the academic year.
- ❖ A regular record of theory and practical sessional marks shall be maintained for each student in the institution.

Project work evaluation: The project work shall be submitted for evaluation towards the end of eight semester.

Industrial / Hospital training:

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester –VI and before the commencement of Semester –VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

Practice School:

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time. At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages).

Eligibility for appearing in the University examination:

A Candidate will be permitted to register in the University Examination only on getting admit card from KUHS by attaining 80% attendance for theory and practical separately and also 50% marks for the internal assessment.



MASTER OF PHARMACY (M.PHARM)

- ❖ **Pharmaceutical Chemistry**
- ❖ **Pharmacology**
- ❖ **Pharmacy Practice**

Governing Bodies :

The course of study is governed by Pharmacy Council of India and Kerala University of Health Sciences.

Eligibility for admission:

A candidate who has passed the B.Pharm degree examination of Kerala university of Health Sciences or an examination equivalent there to of any other university recognized by Kerala University of health Sciences with not less than a total of 55% marks for the B.Pharm degree examination shall be eligible for admission to M.Pharm degree course. The candidate should have undergone B.Pharm degree course in an institution approved by AICTE and the PCI.

Duration of the course :

The program of study for M.Pharm shall extend over a period of four semesters (two academic years).

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

Examination :

Eligibility to appear for exams:

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations. The candidate must secure 50% marks for internal assessment in theory and practical (including viva) separately in a particular subject in order to be eligible to appear in the university examination of the subject.



DOCTOR OF PHARMACY (Pharm-D)

Title of the Programme:

The 6 year Programme shall be called Pharm. D

Governing Bodies :

The course of study is governed by Pharmacy Council of India and Kerala University of Health Sciences.

Duration of the course

The duration of the course shall be six academic years (five years of study and one year of internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of six years duration is divided into two phases.

Phase I - Consisting of First, Second, Third, Fourth and Fifth academic year.

Phase II - Consisting of internship or residency training during sixth year involving posting in specialty units.

Minimum qualification for admission

A pass in any of the following examinations -

- (a) 10+2 examination with Physics and Chemistry as compulsory subjects along with one of the following subjects:
Mathematics or Biology with a minimum of 50% marks in the aggregate for optional subjects.
- (b) A pass in D.Pharm course with a minimum of 50% marks from an institution approved by the pharmacy Council of India under section 12 of the Pharmacy Act.
- (c) Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

Mode of admission:

Based on merit of the qualifying examination, (Reservation as per Government norms) 50% of the total Merit seats should be filled in by the Government/University from the merit list of the qualifying examination, in keeping with all the reservation rules and the fee structure laid down by the Government of Kerala from time to time. The remaining 50% of the seats can be filled in the respective Managements, as per the norms specified by the State Government from time to time.

Syllabus:

The syllabus for each subjected of study shall be as specified in Appendix - A to the regulations of university website.



Eligibility for appearing Examination

A candidate must have minimum 80% attendance in both Theory and Practical classes separately in each subject and 50% marks for internal assessment for appearing the university examinations.

Condonation:

Only students having 70% attendance or more are eligible for condonation. The benefit of condonation will be available to the students only once during the entire course.

Mode of examinations:

- (g) Theory examination shall be of three hours and practical examination shall be of four hours duration. The practical examination shall be evaluated jointly by an internal and an external examiner appointed by the University.
- (h) A student who fails in theory or practical examination of a subject shall reappear both in theory and practical of the same subject.

Clerkship examination:

Oral examination shall be conducted after the completion of clerkship of students. An external and an internal examiner will evaluate the student.

Award of sessional marks and maintenance of records:

- 1) There shall be at least three periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.
- 2) The sessional marks in practical shall be allotted on the following basis:-
 - (i) Actual performance in the sessional examination (20 marks);
 - (ii) Day to day assessment in the practical class work, Promptness, viva-voce, record maintenance, etc. (10 marks)

Certificate of passing examination:

Every student who has passed the examinations for the Pharm.D, Doctor of Pharmacy as the case may be, shall be granted a certificate by the examining authority.

Minimum marks for passing examination:

A student shall not be declared to have passed examination unless he or she at least 50% marks in each of the separately in the theory examinations, including sessional marks and at least 50% marks in each of the practical examinations including sessional marks.

Eligibility for promotion to next year:

All students who have appeared for all the subjects and passed the first year annual examination are eligible for promotion to the second year and, so on. However, failure in more than two subjects shall debar him or her from promotion to the next year classes.



Any one of the two subjects i.e. either Remedial Mathematics or Biology can be carried forward to 2nd year Pharm. D as an additional failed subject alongwith 2 failed subjects of 1st year.

Internship:

Every student has to undergo one year internship as per Appendix-C of the Regulations of the website.

Practical Training:

Hospital posting - Every student shall be posted in constituent hospital for a period of not less than fifty hours to be covered in not less than 200 working days in each of second, third & fourth year course.

Project Work:

To allow the student to develop data collection and reporting skills in the area of community, hospital and clinical pharmacy, a project work shall be carried out under the supervision of a teacher.

PHARM-D (POST BACCALAUREATE) 2010 ONWARDS:

Title of the Programme:

The 3 year Programmes shall be called Pharm.D (Post Baccalaureate)

Duration of the course:

Pharm. D. (Post Baccalaureate) : The duration of the course shall be for three academic years (two years of study and one year internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of three years duration is divided into two phases -

Phase I - consisting of First and Second Academic year. Phase II - consisting of Internship or residency training during third year involving posting in specialty units.

Minimum qualification for

admission to Pharm. D. (Post Baccalaureate) Course:

A pass in B. Pharm examination with a minimum of 50% marks from the institution approved by the Pharmacy Council of India, under section 12 of the Pharmacy Act.

Mode of admission

Based on merit of the qualifying examination, (Reservation as per Government norms) 50% of the total Merit seats should be filled in by the government/University from the merit list of the qualifying examination, in keeping with all the reservation rules and the fee structure laid down by the Government of Kerala from time to time. The remaining 50% of the seats can be filled in the respective Managements, as per the norms specified by the State Government from time to time.



Number of admissions

In the above said programmes shall be as prescribed by the Pharmacy Council of India from time to time and presently be restricted as below - Pharm.D. (Post Baccalaureate) Programme - 10 students.

Institutions running B. Pharm programme approved under section 12 of the Pharmacy Act, will only be permitted to run Pharm.D. (Post Baccalaureate) programme. Pharm.D (Post Baccalaureate) will be permitted only in those institutions which are permitted to run Pharm.D programme.

Third Year: Internship or residency training: including postings in speciality units. Student should independently provide the clinical pharmacy services to the allotted wards.

- (i) Six months in General Medicine department, and
- (ii) Two months each in three other speciality departments

Approval of the authority conducting the course of study : (1) No person, institution, society or university shall start and conduct Pharm.D. (Post Baccalaureate) programme without the prior approval of the Pharmacy Council of India. (2) Any person or pharmacy college for the purpose of obtaining permission under sub- section 1 of section 12 of the Pharmacy Act, shall submit a scheme as prescribed by the Pharmacy council of India. (3) The scheme referred to in sub-regulation

(2) above, shall be in such form and contain such particulars and be preferred in such manner and be accompanied with such fee as may be prescribed. Provided that the Pharmacy Council of India shall not approve any institution under these regulations unless it provides adequate arrangements for teaching in regard to building, accommodation, labs, equipments, teaching staff, non-teaching staff, etc., as specified in Appendix- B to these regulations.

Examination - (1) Every year there shall be an examination to examine the students. (2) Each examination may be held twice every year. The first examination in a year shall be the annual examination and the second examination shall be supplementary examination.

Eligibility for appearing Examination : Only such students who produce certificate from the Head of the Institution in which he or she has undergone the Pharm.D. (Post Baccalaureate) course, in proof of his or her having regularly and satisfactorily undergone the course of study by attending not less than 80% of the classes held both in theory and in practical separately in each subject shall be eligible for appearing at examination.

Mode of examinations : (1) Theory examination shall be of three hours and practical examination shall be of four hours duration. (2) A Student who fails in theory or practical examination of a subject shall re-appear both in theory and practical of



the same subject. (3) Practical examination shall also consist of a viva-voce (oral) examination. (4) Clerkship examination - Oral examination shall be conducted after the completion of clerkship of students. An external and an internal examiner will evaluate the student. Students may be asked to present the allotted medical cases followed by discussion. Students' capabilities in delivering clinical pharmacy services, pharmaceutical care planning and knowledge of therapeutics shall be assessed.

Award of sessional marks and maintenance of records:

- (1) A regular record of both theory and practical class work and examinations conducted in an institution imparting training for Pharm.D. (Post Baccalaureate) course, shall be maintained for each student in the institution and 30 marks for each theory and 30 marks for each practical subject shall be allotted as sessional.
- (2) There shall be at least three periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks. (3) The sessional marks in practicals shall be allotted on the following basis:
 - (i) Actual performance in the sessional examination (20 marks);
 - (ii) Day to day assessment in the practical class work, promptness, viva-voce, record maintenance, etc. (10 marks).

Minimum marks for passing examination: A student shall not be declared to have passed examination unless he or she secures at least 50% marks in each of the subjects separately in the theory examinations, including sessional marks and at least 50% marks in each of the practical examinations including sessional marks.

Eligibility for promotion to next year: All students who have appeared for all the subjects and passed the first year annual examination are eligible for promotion to the second year and, so on. However, failure in more than two subjects shall debar him or her from promotion to the next year classes.

Internship: (1) Internship is a phase of training wherein a student is expected to conduct actual practice of pharmacy and health care and acquires skills under the supervision so that he or she may become capable of functioning independently.

(2) Every student has to undergo one year internship as per Appendix-C to these regulations.

Approval of examinations: Examinations mentioned in regulations 10 to 12 and 14 shall be held by the examining authority hereinafter referred to as the university, which shall be approved by the Pharmacy Council of India under sub-section (2) of section 12 of the Pharmacy Act, 1948. Such approval shall be granted only if the examining authority concerned fulfills the conditions as specified in Appendix-D to these regulations.



Certificate of passing examination: Every student who has passed the examinations for the Pharm.D. (Post Baccalaureate) (Doctor of Pharmacy) shall be granted a certificate by the examining authority. For details log on to www.kuhs.ac.in

Practical training

Hospital posting: Every student shall be posted in constituent hospital for a period of not less than fifty hours to be covered in not less than 200 working days in each of first & second year course. Each student shall submit report duly certified by the preceptor and duly attested by the Head of the Department or Institution as prescribed. In the third year, every student shall spend half a day in the morning hours attending ward rounds on daily basis as a part of clerkship. Theory teaching may be scheduled in the afternoon.

Project work : (1) To allow the student to develop data collection and reporting skills in the area of community, hospital and clinical pharmacy, a project work shall be carried out under the supervision of a teacher. The project topic must be approved by the Head of the Department or Head of the Institution.

Evaluation: The following methodology shall be adopted for evaluating the project work.

- (i) Project work shall be evaluated by internal and external examiners.
- (ii) Students shall be evaluated in group for hours (i.e., about half an hour for a group of four students).
- (iii) Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.

Read and understood all the rules and regulations of the institution, society and affiliating bodies. A copy of the same is received.

Name & Signature
of the Student

Date :

Name & Signature
of the Parent/ Guardian

Date :

**AUGUST - 2021**

1	Sunday	Holiday
2	Monday	
3	Tuesday	
4	Wednesday	
5	Thursday	
6	Friday	
7	Saturday	
8	Sunday	Holiday
9	Monday	
10	Tuesday	
11	Wednesday	Holiday
12	Thursday	
13	Friday	World Organ Donation Day
14	Saturday	Second Saturday - Holiday
15	Sunday	Independence Day - Holiday
16	Monday	
17	Tuesday	
18	Wednesday	
19	Thursday	Muharam - Holiday
20	Friday	First Onam - Holiday
21	Saturday	Thiruvonam - Holiday
22	Sunday	Holiday
23	Monday	Sree Narayanaguru Jayanthi - Holiday
24	Tuesday	
25	Wednesday	Holiday
26	Thursday	Women's Equality Day
27	Friday	
28	Saturday	Ayyankali Jayanthi - Holiday
29	Sunday	Holiday
30	Monday	Sreekrishna Jayauthi - Holiday
31	Tuesday	

**SEPTEMBER - 2021**

1	Wednesday	
2	Thursday	
3	Friday	
4	Saturday	
5	Sunday	Teachers Day - Holiday
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	
11	Saturday	Second Saturday - Holiday
12	Sunday	Holiday
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	
19	Sunday	Holiday
20	Monday	Re-Union Day - Holiday
21	Tuesday	Sreenarayanaguru Samadhi/ World Alzheimer's day - Holiday
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	
26	Sunday	Holiday
27	Monday	
28	Tuesday	
29	Wednesday	World Heart Day
30	Thursday	

**OCTOBER - 2021**

1	Friday	
2	Saturday	Gandhi Jayanthi - Holiday
3	Sunday	Holiday
4	Monday	
5	Tuesday	
6	Wednesday	
7	Thursday	
8	Friday	
9	Saturday	Second Saturday - Holiday
10	Sunday	Holiday
11	Monday	International Girl Child Day
12	Tuesday	
13	Wednesday	
14	Thursday	Mahanavami - Holiday
15	Friday	Vijayadasami - Holiday
16	Saturday	World Food Day
17	Sunday	Holiday
18	Monday	
19	Tuesday	Miladi Sherif - Holiday
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	Sunday	Holiday
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	
30	Saturday	
31	Sunday	Holiday

**NOVEMBER - 2021**

1	Monday	
2	Tuesday	
3	Wednesday	
4	Thursday	Deepavali - Holiday
5	Friday	
6	Saturday	
7	Sunday	Holiday- National Cancer Awareness Day
8	Monday	
9	Tuesday	
10	Wednesday	
11	Thursday	
12	Friday	
13	Saturday	Second Saturday - Holiday
14	Sunday	Holiday - World Diabetics Day
15	Monday	
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	
20	Saturday	
21	Sunday	Holiday
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	International Day for the Elimination Of Violence against women
26	Friday	
27	Saturday	
28	Sunday	Holiday
29	Monday	
30	Tuesday	

**DECEMBER - 2021**

1	Wednesday	World AIDS Day
2	Thursday	
3	Friday	
4	Saturday	
5	Sunday	Holiday
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	Anti-Corruption Day
10	Friday	Human Rights Day
11	Saturday	Second Saturday -Holiday
12	Sunday	Holiday
13	Monday	
14	Tuesday	World Energy Conservation Day
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	
19	Sunday	Holiday
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	Christmas - Holiday
26	Sunday	Holiday
27	Monday	
28	Tuesday	
29	Wednesday	
30	Thursday	
31	Friday	

**JANUARY - 2022**

1	Saturday	
2	Sunday	Mannam Jayanthi - Holiday
3	Monday	
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	Second Saturday - Holiday
9	Sunday	Holiday
10	Monday	
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	
16	Sunday	Holiday
17	Monday	
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	
22	Saturday	
23	Sunday	Holiday
24	Monday	
25	Tuesday	
26	Wednesday	Republic Day - Holiday
27	Thursday	
28	Friday	
29	Saturday	
30	Sunday	Holiday
31	Monday	

**FEBRUARY-2022**

1	Tuesday	
2	Wednesday	
3	Thursday	
4	Friday	World Cancer Day
5	Saturday	
6	Sunday	Holiday
7	Monday	
8	Tuesday	
9	Wednesday	
10	Thursday	
11	Friday	
12	Saturday	Second Saturday - Holiday
13	Sunday	Holiday
14	Monday	
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	
20	Sunday	Holiday
21	Monday	
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	
26	Saturday	
27	Sunday	Holiday
28	Monday	National Science Day

**MARCH - 2022**

1	Tuesday	Mahashivaratri- Holiday
2	Wednesday	
3	Thursday	
4	Friday	
5	Saturday	
6	Sunday	Holiday
7	Monday	
8	Tuesday	International Women's day
9	Wednesday	
10	Thursday	
11	Friday	
12	Saturday	Second Saturday - Holiday
13	Sunday	Holiday
14	Monday	
15	Tuesday	
16	Wednesday	National Vaccination Day
17	Thursday	
18	Friday	
19	Saturday	
20	Sunday	Holiday
21	Monday	
22	Tuesday	
23	Wednesday	
24	Thursday	World Tuberculosis Day
25	Friday	
26	Saturday	
27	Sunday	Holiday
28	Monday	
29	Tuesday	
30	Wednesday	
31	Thursday	

**APRIL - 2022**

1	Friday	
2	Saturday	World Autism Awareness Day
3	Sunday	Holiday
4	Monday	
5	Tuesday	
6	Wednesday	
7	Thursday	World Health Day
8	Friday	
9	Saturday	Second Saturday - Holiday
10	Sunday	
11	Monday	
12	Tuesday	
13	Wednesday	
14	Thursday	Dr. Ambedkar Jayanthi/ Maundy Thursday - Holiday
15	Friday	Vishu, Good Friday - Holiday
16	Saturday	
17	Sunday	Easter - Holiday
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	World Earth Day
23	Saturday	
24	Sunday	Holiday
25	Monday	World Malaria Day
26	Tuesday	World Intellectual Property Day
27	Wednesday	
28	Thursday	
29	Friday	
30	Saturday	

**MAY - 2022**

1	Sunday	May Day- Holiday
2	Monday	Eid- Ul Fitr - Holiday
3	Tuesday	
4	Wednesday	
5	Thursday	
6	Friday	
7	Saturday	
6	Sunday	Holiday
9	Monday	
10	Tuesday	Mother's Day
11	Wednesday	National Technology day
12	Thursday	
13	Friday	
14	Saturday	Second Saturday- Holiday
15	Sunday	Holiday
16	Monday	
17	Tuesday	
18	Wednesday	
19	Thursday	
20	Friday	
21	Saturday	National Anti-Terrorism Day
22	Sunday	Holiday
23	Monday	
24	Tuesday	
25	Wednesday	
26	Thursday	
27	Friday	
28	Saturday	
29	Sunday	Holiday
30	Monday	
31	Tuesday	Anti-Tobacco Day

**JUNE 2022**

1	Wednesday	
2	Thursday	
3	Friday	
4	Saturday	
5	Sunday	Holiday - World Environment Day
6	Monday	
7	Tuesday	World Food Safety Day
8	Wednesday	
9	Thursday	
10	Friday	
11	Saturday	Second Saturday - Holiday
12	Sunday	Holiday
13	Monday	
14	Tuesday	World Blood Donor Day
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	
19	Sunday	Holiday
20	Monday	
21	Tuesday	International Day of Yoga
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	
26	Sunday	Holiday- International Day Against Drug Abuse and Illicit Trafficking
27	Monday	
28	Tuesday	
29	Wednesday	
30	Thursday	

**JULY 2022**

1	Friday	
2	Saturday	
3	Sunday	St.Thomas Day - Holiday
4	Monday	
5	Tuesday	
6	Wednesday	
7	Thursday	
8	Friday	
9	Saturday	Bakrid, Second Saturday - Holiday
10	Sunday	Holiday
11	Monday	
12	Tuesday	
13	Wednesday	
14	Thursday	
15	Friday	
16	Saturday	
17	Sunday	Holiday – World Day for International Justice
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	Sunday	Holiday
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	World Hepatitis Day
29	Friday	
30	Saturday	
31	Sunday	Holiday

**EXAMINATION SCHEDULES****(Academic Year 2021 -22)****B.PHARM**

BATCH	PROGRAM	DATE OF COMMENCEMENT
I Sem B.Pharm	Commencement of Theory classes	08.11.2021
	Commencement of Practical classes	03.01.2022
	First Sessional Theory Examinations	07.02.2022
	First Sessional Practical Examinations	21.02.2022
	Second Sessional Theory Examinations	14.03.2022
	Second Practical Sessional Examinations	28.03.2022
II Sem B.Pharm	Commencement of Theory classes	25.10.2021
	Commencement of Practical classes	17.01.2022
	First Sessional Practical Examinations	07.02.2022
	First Sessional Theory Examinations	17.02.2022
	Second Sessional Theory Examinations	28.02.2022
	Second Sessional Practical Examinations	07.03.2022
III Sem B.Pharm	Commencement of Theory and Practical classes	01.04.2022
	First Sessional Theory Examinations	06.06.2022
	First Sessional Practical Examinations	13.06.2022
	Second Sessional Theory Examinations	09.08.2022
	Second Practical Sessional Examinations	16.08.2022
IV Sem B.Pharm	Commencement of Theory classes	08.11.2021
	First Sessional Theory Examinations	28.01.2022
	Second Sessional Theory Examinations	07.02.2022
	Commencement of Practical classes	14.02.2022
	First Sessional Practical Examinations	14.03.2022
	Second Practical Sessional Examinations	28.03.2022



V Sem B.Pharm	Commencement of Theory and Practical classes	01.04.2022
	First Sessional Theory Examinations	06.06.2022
	First Sessional Practical Examinations	13.06.2022
	Second Sessional Theory Examinations	09.08.2022
	Second Practical Sessional Examinations	16.08.2022
VI Sem B.Pharm	Commencement of Practical classes	22.11.2021
	First Sessional Practical Examinations	20.12.2021
	Commencement of Theory classes	27.12.2021
	Second Sessional Practical Examinations	07.03.2022
	First Sessional Theory Examinations	14.03.2022
	Second Sessional Theory Examinations	23.03.2022
VIII Sem B.Pharm	Commencement of Theory classes	08.11.2021
	First Sessional Theory Examinations	03.01.2022
	Second Sessional Theory Examinations	10.01.2022
	Submission of Thesis	14.03.2022

NOTE

- I** : IAEC, IEC & RMC will be scheduled & conducted as and when required.
II : All these days are tentative & subjective to change as per PCI /KUHS directives.
III : Detailed scheduled will be announced from time to time & will be uploaded in class groups.

EXAMINATION SCHEDULES**(Academic Year 2021 -22)****M. PHARM**

BATCH	PROGRAM	DATE OF COMMENCEMENT
II Sem M.Pharm	Commencement of Theory classes	06.12.2021
	Commencement of practical classes	06.12.2021
	First Sessional Theory Examinations	01.02.2022
	First Sessional practical Examinations	28.02.2022
	Second Sessional theory Examinations	21.03.2022
	Second Sessional practical Examinations	28.03.2022

**NOTE**

- I** : IAEC, IEC & RMC will be scheduled & conducted as and when required.
II : All these days are tentative & subjective to change as per PCI /KUHS directives.
III : Detailed scheduled will be announced from time to time & will be uploaded in class groups.

EXAMINATION SCHEDULES**(Academic Year 2021 -22)****PHARM. D**

BATCH	PROGRAM	DATE OF COMMENCEMENT
I Pharm. D	Commencement of theory classes (Online)	08.11.2021
	Commencement of practical classes	07.03.2022
	First Sessional practical Examinations	25.04.2022
	First Sessional theory Examinations	16.05.2022
	Second Sessional theory Examinations	30.05.2022
	Second Sessional practical Examinations	06.06.2022
	Third Sessional theory Examinations	13.06.2022
II Pharm. D	Commencement of theory classes (Online)	06.09.2021
	Commencement of practical classes	07.02.2022
	First Sessional practical Examinations	04.04.2022
	Second Sessional practical Examinations	11.04.2022
	First Sessional theory Examinations	25.04.2022
	Second Sessional theory Examinations	09.05.2022
	Third Sessional theory Examinations	23.05.2022
III Pharm. D	Commencement of theory classes (Online)	06.09.2021
	Commencement of practical classes	28.02.2022
	First Sessional practical Examinations	11.04.2022
	Second Sessional practical Examinations	18.04.2022
	First Sessional theory Examinations	02.05.2022
	Second Sessional theory Examinations	16.05.2022
	Third Sessional theory Examinations	30.05.2022



IV Pharm. D & I Pharm. D (PB)	Commencement of theory classes (Online)	06.09.2021
	Commencement of practical classes	07.02.2022
	First Sessional practical Examinations	21.03.2022
	Second Sessional practical Examinations	28.03.2022
	First Sessional theory Examinations	11.04.2022
	Second Sessional theory Examinations	25.04.2022
	Third Sessional theory Examinations	09.05.2022
VI Pharm. D & I Pharm. D (PB)	Commencement of theory classes (Online)	06.09.2021
	First Sessional theory Examinations	07.03.2022
	Second Sessional theory Examinations	14.03.2022
	Third Sessional theory Examinations	21.03.2022
VI PHARM. D	Internship	31.08.2022

NOTE

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- II** : All these days are tentative & subjective to change as per PCI /KUHS directives.
- III** : Detailed scheduled will be announced from time to time & will be uploaded in class groups.



**UNIVERSITY GRANTS COMMISSION BAHADUR SHAH
ZAFAR MARG NEW DELHI - 110 001**

**UGC DRAFT REGULATIONS
ON CURBING THE MENACE OF RAGGING
IN HIGHER EDUCATIONAL INSTITUTIONS, 2009**

In exercise of the power conferred by Clause (g) of Sub-Section (1) of Section 26 of the University Grants Commission Act, 1956, the University Grants Commission hereby makes the following Regulations, namely:-

1. Title, Commencement and Applicability

- 1.1 These regulations shall be called the "UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009".
- 1.2 They shall come into force from the date of their publication in the Official Gazette.
- 1.3 They shall apply to all the institutions coming within the definition of an University under sub-section (f) of section (2) of the University Grants Commission Act, 1956, and to all institutions deemed to be a university under Section 3 of the University Grants Commission Act, 1956, to all other higher educational institutions, or elements of such universities or institutions, including its departments, constituent units and all the premises, whether being academic, residential, playgrounds, canteen, or other such premises of such universities, deemed universities and higher educational institutions.

2. Objectives

To prohibit any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student, or indulging in rowdy or in disciplined activities by and student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student, with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student; and thereby, to eliminate ragging in all its forms from universities, deemed universities and other higher educational institutions in the country by prohibiting it under these Regulations, preventing its occurrence and punishing those who indulge in ragging, 'as provided for in these Regulations and the appropriate law in force.

3. What Constitutes Ragging

Ragging constitutes one or more of any of the following acts:

- a. any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student;



- b. indulging in rowdy or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student;
- c. asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment as to adversely affect the physique or psyche of such fresher or any other student;
- d. any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher;
- e. exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.
- f. any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students;
- g. any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person;
- h. any act or abuse by spoken words, emails, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student;
- i. any act that affects the mental health and self- confidence of a fresher or any other student with or without and intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student.

4. Definitions

- (1) In these regulations unless the context otherwise requires;
- a) "Act" means, the University Grants Commission Act, 1956 (3 of 1956);
 - b) "Academic year" means the period from the commencement of admission of students in any course of study in the institution up to the completion of academic requirements for that particular year.
 - c) "Anti-Ragging Helpline" means the Helpline established under clause (a) of Regulation 8.1 of these Regulations.
 - d) "Commission" means the University Grants Commission.
 - e) "Council" means a body so constituted by an Act of Parliament or an Act of any State Legislature for setting, or co-ordinating or maintaining standards in the relevant areas of higher education, such as the All India Council for Technical Education (AICTE), the Bar Council of India (BCI), the Dental Council of India (DCI), the Distance Education Council (DEC), the Indian Council of Agricultural Research (ICAR), the Indian Nursing Council (INC), the Medical



Council of India (MCI), the National Council for Teacher Education (NCTE), the Pharmacy Council of India (PCI), etc. and the state Higher Education Councils.

- f) "District Level Anti-Ragging-Committee" means the Committee, headed by the District Magistrate, constituted by the State Government, for the control and elimination of ragging institutions within the jurisdiction of the district.
 - g) "Head of the institution" means the Vice-Chancellor in case of a university or a deemed to be university, the Principal or the Director or such other designation as the executive head of the institution or the college is referred.
 - h) "Fresher" means a student who has been admitted to an institution and who is undergoing his/her first year of study in such institution.
 - i) "Institution" means a higher educational institution including, but not limited to an university, a deemed to be university, a college, and institute, and institution of national importance set up by an Act of Parliament or a constituent unit of such institution, imparting higher education beyond 12 years of schooling leading to, but not necessarily culminating in, a degree (graduate, Postgraduate and/or higher level) and/or to a university diploma.
 - j) "NAAC" means the National Academic and Accreditation Council established by the Commission under section 12 (ccc) of the Act;
 - k) "State Level Monitoring Cell" means the body constituted by the State Government for the control and elimination of ragging in institutions within the jurisdiction of the State, established under a State Law or on the advice of the Central Government, as the case may be.
- (2) Words and expressions used and not defined herein but defined in the Act or in the General Clauses Act, 1897, shall have the meanings respectively assigned to them in the Act or in the General Clauses Act, 1897, as the case may be.

5. Measures for prohibition of Ragging at the Institution Level

- a) No institution or any part of it thereof, including its elements, including, but not limited to, the departments, constituent units, colleges, centers of studies and all its premises, whether academic, residential, playgrounds, or canteen, whether located within the campus or outside, and in all means of transportation of students, whether public or private, accessed by students for the pursuit of studies in such institutions, shall permit or condone any reported incident of ragging in any form; and all institutions shall take all necessary and required measures including but not limited to the provisions of these Regulations, to achieve the objective of eliminating ragging, within the institution or outside,
- b) All institutions shall take action in accordance with these Regulations against those found guilty of ragging and/or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.



6. Measures for Prevention of Ragging at the Institution Level

6.1 An institution shall take the following steps in regard to admission or registration of students; namely:

a) Every public declaration of intent by any institution, in any electronic, audio-visual or print or any other media, for admission of students to any course of study shall expressly provide that ragging is totally prohibited in the institution, and anyone found guilty of ragging and or abetting ragging, whether actively or passively, or being a part of a conspiracy to promote ragging, is liable to be punished in accordance with these Regulations as well as under the provisions of any penal law for the time being in force.

b) The brochure of admission/instruction booklet or the prospectus, whether in print or electronic format, shall prominently print these Regulations in full.

Provided that the institution shall also draw attention to any law concerning ragging and its consequences, as may be applicable to the institution publishing such brochure of admission/instruction booklet or the prospectus.

Provided further that the telephone numbers of the Anti-Ragging Helpline and all the important functionaries in the institution, including but not limited to the Head of the institution, faculty members, members of the Anti- Ragging Committees and Anti-Ragging Squads, District and Sub-Divisional authorities, Wardens of hostels, and other functionaries or authorities where relevant, shall be published in the brochure of admission/instruction booklet or the prospectus.

c) Where an institution is affiliated to a University and publishes a brochure of admission/instruction booklet or a prospectus, the affiliating university shall ensure that the affiliated institution shall comply with the provisions of clause (a) and clause (b) of Regulation 6.1 of these Regulations.

d) The application form for admission, enrolment or registration shall contain an affidavit, mandatorily in English and in Hindi and/or in one of the regional languages known to the applicant, as provided in the English language in Annexure I to these Regulations, to be filled up and signed by the applicant to the effect that he/she has read and understood the provisions of these Regulations as well as the provisions of any other law for the time being in force, and is aware of the prohibitions of ragging and the punishments prescribed, both under penal laws as well as under these Regulations and also affirm to the effect that he/she has not been expelled and/or debarred by any institution and further aver that he/she would not indulge, actively or passively, in the act or abet the act of ragging and if found guilty of ragging and/or abetting ragging, is liable to be proceeded against under these Regulations or under any penal law or any other law for the time being in force and such action would include but is not limited to debarment or expulsion of such student,

e) The application form for admission, enrolment or registration shall contain an affidavit, mandatorily in English and in Hindi and/or in one of the regional



languages known to the parents/guardians of the applicant, as provided in the English language in Annexure 1 to these Regulations, to be filled up and signed by the parents/guardians of the applicant to the effect that he/she has read understood the provisions of these Regulations and also affirm to the effect that his / her ward, has not been expelled and/or debarred by any institution and further aver that his/her ward would not indulge, actively or passively, in the act or abet the act of ragging and/or abetting ragging, his/her ward is liable to be proceeded against under these Regulations or under any penal law or any other law for the time being in force and such action would include but is not limited to debarment or expulsion of his/her ward.

- f) The application for admission shall be accompanied by a document in the form of, or annexed to, the School Leaving Certificate/Transfer Certificate/Migration Certificate/Character Certificate reporting on the inter- personal/social behavioural pattern of the applicant, to be issued by the school or institution last attended by the applicant, so that the institution can thereafter keep watch on the applicant, if admitted, whose behaviour has been commented in such document.
- g) A student seeking admission to a hostel forming part of the institution, or seeking to reside in any temporary premises not forming part of the institution, including a private commercially managed lodge or hostel, shall have to submit additional affidavits countersigned by his/her parents/guardians in the form prescribed in Annexure I and Annexure II to these Regulations respectively along with his/her application.
- h) Before the commencement of the academic session in any institution, the Head of the Institution shall convene and address a meeting of various functionaries/agencies, such as Hostel Wardens, representatives of students, parents/guardians, faculty, district administration including the police, to discuss the measures to be taken to prevent ragging in the institution and steps to be taken to identify those indulging in or abetting ragging and punish them.
- i) The institution shall, to make the community at large and the students in particular aware of the dehumanizing effect of ragging, and the approach of the Institution towards those indulging in ragging, prominently display posters depicting the provisions of penal law applicable to incidents of ragging, and the provisions of these Regulations and also any other law for the time being in force, and the punishments thereof, shall be prominently displayed on Notice Board of all department, hostels and other buildings as well as at places, where students normally gather and at places, known to be vulnerable to occurrences of ragging incidents.
- j) The institution shall request the media to give adequate publicity to the law prohibiting ragging and the negative aspects of ragging and the institution's resolve to ban ragging and punish those found guilty without fear or favour.
- k) The institution shall identify, properly illuminate and keep a close watch on all locations known to be vulnerable to occurrences of ragging incidents.



- l) The institution shall tighten security in its premises, especially at vulnerable places and intense policing by Anti-ragging Squad, referred to in these Regulations and volunteers, if any, shall be resorted to at such points at odd hours during the first few months of the academic session.
 - m) The institution shall utilize the vacation period before the start of the new academic year to launch a publicity campaign against ragging through posters, leaflets and such other means, as may be desirable or required, to promote the objectives of these Regulations.
 - n) The faculties/departments/units of the institution shall have induction arrangements, including those which anticipate, identify and plan to meet any special needs of any specific section of students, in place well in advance of the beginning of the academic year with an aim to promote the objectives of this Regulation.
 - o) Every institution shall engage or seek the assistance of professional counselors before the commencement of the academic session, to be available when required by the institution, for the purposes of offering counseling to freshers and to other students after the commencement of the academic year.
 - p) The head of the institution shall provide information to the local police and local authorities, the details of every privately commercially managed hostels or lodges used for residential purposes by students enrolled in the institution and the head of the institution shall also ensure that the Anti-ragging squad shall ensure vigil in such locations to prevent the occurrence of ragging therein.
- 6.2 An institution shall, on admission or enrolment or registration of students, take the following steps, namely:
- a) Every fresh student admitted to the institution shall be given a printed leaflet detailing to whom he/she has to turn to for help and guidance for various purposes including addresses and telephone number, so as to enable the student to contact the concerned person at any time, if and when required, of the Anti-ragging Helpline referred to in these Regulations, Wardens, Head of the institution, all members of the anti-ragging squads and committees, relevant district and police authorities.
 - b) The institution, through the leaflet specified in clause (a) of Regulation 6.2 of these Regulations shall explain to the freshers, the arrangements made for their induction and orientation which promote efficient and effective means of integrating them fully as students with those already admitted to the institution in earlier years.
 - c) The leaflet specified in clause (a) of Regulation 6.2 of these Regulations shall inform the freshers about their rights as bona fide students of the institution and clearly instructing them that they should desist from doing anything, with or against their will, even if ordered to by the senior students, and that any attempt of



ragging shall to be promptly reported to the Anti-ragging Squad or to the Warden or to the Head of the institution, as the case may be.

- d) The leaflet specified in clause (a) of Regulation 6.2 of these Regulations shall contain a calendar of events and activities laid down by the institution to facilitate and complement familiarization of freshers with the academic environment of the institution.
- e) The institution shall, on the arrival of senior students after the first week or after the second week, as the case may be, schedule orientation programmes as follows, namely; (i) joint sensitization programme and counseling of both freshers and senior students by a professional counselor, referred to in clause (o) of Regulation 6.1 of these Regulations; (ii) joint orientation programme of freshers and seniors to be addressed by the Head of the institution and the anti-ragging committee; (iii) organization on a large scale of cultural, sports and other activities to provide a platform for the freshers and seniors to interact in the presence of faculty members; (iv) in the hostel, the warden should address all students; and may request two junior colleagues from the college faculty to assist the warden by becoming resident tutors for a temporary duration (v) as far as possible faculty members should dine with the hostel residents in their respective hostels to instil a feeling of confidence among the freshers.
- f) The institution shall set up appropriate committees, including the course-in-charge, student advisor, Wardens and some senior students as its members, to actively monitor, promote and regulate healthy interaction between the freshers, junior students and senior students.
- g) Freshers or any other student(s), whether being victims, or witnesses, in any incident of ragging, shall be encouraged to report such occurrence, and the identity of such informants shall be protected and shall not be subject to any adverse consequence only for the reason for having reported such incidents.
- h) Each batch of freshers, on arrival at the institution, shall be divided into small groups and each such group shall be assigned to a member of the faculty, who shall interact individually with each member of the group every day for ascertaining the problems or difficulties, if any, faced by the fresher in the institution and shall extend necessary help to the fresher in overcoming the same.
- i) It shall be the responsibility of the member of the faculty assigned to the group of freshers, to coordinate with the Wardens of the hostels and to make surprise visits to the rooms in such hostels, where a member or members of the group are lodged; and such member of faculty shall maintain a diary of his/her interaction with the freshers under his/her charge.
- j) Freshers shall be lodged, as far as may be, in a separate hostel block, and such facilities are not available, the institution shall ensure that access of to accommodation allotted to freshers is strictly monitored by wardens, squads and other staff of the institution.



- k) A round the clock vigil against ragging in the hostel premises, in order to prevent ragging in the hostels after the classes are over, shall be ensured by the institution.
- l) It shall be the responsibility of the parents/guardians of freshers to promptly bring any instance of ragging to the notice of the Head of the Institution.
- m) Every student studying in the institution and his/her parents/guardians shall provide the specific affidavits required under clauses "(d), (e) and (g) Regulation 6 of these Regulations at the time of admission or registration, as the case may be, during each academic year.
- n) Every institution shall obtain the affidavit from every student as referred to above in clause (m) of Regulation 5.2 and maintain a proper record of the same and "to ensure its safe upkeep thereof, including maintaining the copies of the affidavit in an electronic form, to be accessed easily when required either by the Commission or any of the Councils or by the institution or by the affiliating University or by any other person or organisation authorised to do so.
- o) Every student at the time of his/her registration shall inform the institution about his/her place of residence while pursuing the course of study, and in case the student has not decided his/her place of residence or intends to change the same, the details of his place of residence shall be provided immediately on deciding the same; and specifically in regard to a private commercially managed lodge or hostel where he/she has taken up residence.
- p) The Head of the institution shall, on the basis of the information provided by the student under clause (o) of Regulation 6.2, apportion sectors to be assigned to members of the faculty, so that such member of faculty can maintain vigil and report any incident of ragging outside the campus or en route while commuting to the institution using any means of transportation of students, whether public or private.
- q) The Head of the institution shall, at the end of each academic year, send a letter to the parents/guardians of the students who are completing their first year in the institution, informing them about these Regulations and any law for the time being in force prohibiting ragging and the punishments thereof as well as punishments prescribed under the penal laws, and appealing to them to impress upon their wards to desist from indulging in ragging -on-their return to the institution at the beginning of the academic session next.

5.3 Every institution shall constitute the following bodies; namely,

- a) Every institution shall constitute a Committee to be known as the Anti-ragging Committee to be nominated and headed by the Head of the institution, and consisting of representatives of civil and police administration, local media, Non-Government Organizations involved in youth activities, representatives of students belonging to the freshers' category as well as senior students, non-teaching staff; and shall have a diverse mix of membership in terms of levels as well as gender.



- b) It shall be the duty of the Anti-ragging Committee to ensure compliance with the provisions of these Regulations as well as the provisions of any law for the time being in force concerning ragging; and also to monitor and oversee the performance of the Anti-ragging Squad in prevention of ragging in the institution.
- c) Every institution shall also constitute a smaller body to be known as the Anti-ragging Squad to be nominated by the Head of the Institution with such representation as may be considered necessary for maintaining vigil, oversight and patrolling functions and shall remain mobile, alert and active at all times.

Provided that the Anti-ragging Squad shall have representation of various members of the campus community and shall have no outside representation.

- d) It shall be the duty of the Anti-ragging Squad to be called upon to make surprise raids on hostels, and other places vulnerable to incidents of, and having the potential of, ragging and shall be empowered to inspect such places.
- e) It shall also be the duty of the Anti-ragging Squad to conduct an on the spot enquiry into any incident of ragging referred to it by the Head of institution or any member of the faculty or any member of the staff or any student or any parent or guardian or any employee of a service provider or by any other person, as the case may be; and the enquiry report along with recommendations shall be submitted to the Anti- Ragging Committee for action under clause (a) of Regulation 9.1.

Provided that the Anti-ragging Squad shall conduct such enquiry observing a fair and transparent procedure and the principles of natural justice and after giving adequate opportunity to the student or students accused of ragging and other witnesses to place before it the facts, documents and views concerning the incident of ragging, and considering such other relevant information as may be required.

- f) Every institution shall, at the end of each academic year, in order to promote the objectives of these Regulations, constitute a Mentoring Cell consisting of students volunteering to be Mentors for freshers, in the succeeding academic year; and there shall be as many levels or tiers of Mentors as the number of batches in the institution, at the rate of one Mentor for six freshers and one Mentor of a higher level for six Mentors of the lower level.
- g) Every University shall constitute a body to be known as Monitoring Cell on Ragging, which shall coordinate with the affiliated colleges and institutions under the domain of the University to achieve the objectives of these Regulations; and the Monitoring Cell shall call for reports from the Heads of institutions in regard to the activities of the Anti-ragging Committees, Anti-ragging Squads, and the Mentoring Cells at the Institutions, and it shall also keep itself abreast of the decisions of the District level Anti-ragging Committee headed by the District Magistrate.
- b) The Monitoring Cell shall also review the efforts made by institutions to publicize anti-ragging measures, soliciting of affidavits from parents/guardians and from



students, each academic year, to abstain from ragging activities or willingness to be penalized for violations; and shall function as the prime mover for imitating action on the part of the appropriate authorities of the university for amending the Statutes or Ordinances or Bye-laws to facilitate the implementation of anti-ragging measures at the level of the institution.

5.4 Every institution shall take the following other measures, namely;

- a) Each hostel or a place where groups of students reside, forming part of the institution, shall have a full-time Warden, to be appointed by the institution as per eligibility criteria laid down for the post reflecting both the command and control aspects of maintaining discipline and preventing incidents of ragging within the hostel, as well as the softer skills of counseling and communicating with the youth outside the class-room situation; and who shall reside within the hostel, or at the very least, in the close vicinity thereof
- b) The Warden shall be accessible at all hours and be available on telephone and other modes of communication, and for the purpose. The Warden shall be provided with a mobile phone by the institution, the number of which shall be publicised among all students residing in the hostel.
- c) The institution shall review and suitably enhance the powers of Wardens; and the security personnel posted in hostels shall be under the direct control of the Warden and their performance shall be assessed by them.
- d) The professional counselors referred to under clause
- (o) of Regulation 6.1 of these Regulations shall, at the time of admission, counsel freshers and/or any other student(s) desiring counseling, in order to prepare them for the life ahead, particularly in regard to the life in hostels and to the extent possible, also involve parents and teachers in the counseling sessions.
- e) The institution shall undertake measures for extensive publicity against ragging by means of audio-visual aids, counseling sessions, workshops, painting and design competitions among students and such other measures, as it may deem fit.
- f) In order to enable a student or any person to communicate with the Anti-ragging Helpline, every institution shall permit unrestricted access to mobile phones and public phones in hostels and campuses, other than in class-rooms, seminar halls, library, and in such other places that the institution may deem it necessary to restrict the use of phones.
- g) The faculty of the institution and its non-teaching staff, which includes but is not limited to the administrative staff, contract employees, security guards and employees of service providers providing services within the institution, shall be sensitized towards the ills of ragging, its prevention and the consequences thereof.
- h) The institution shall obtain an undertaking from every employee of the institution including all teaching and non-teaching members of staff, contract labour



employed in the premises either for running canteen or as watch and ward staff or for cleaning or maintenance of the buildings/lawns and employees of service providers providing services within the institution, that he/she would report promptly any case of ragging which comes to his/her notice.

- i) The institution shall make a provision in the service rules of its employees for issuing certificates of appreciation to such members of the staff who report incidents of ragging which will form part of their service record.
- j) The institution shall give necessary instructions to the employees of the canteens and messing, whether that of the institution or that of a service provider providing this service, or their employers, as the case may be, to keep a strict vigil in the area of their work and to report the incidents of ragging to the Head of the institution or members of the Anti-Ragging Squad or members of the Anti-Ragging Committee or the Wardens, as may be required.
- k) All Universities awarding a degree in education at any level, shall be required to ensure that institutions imparting instruction in such courses or conducting training programme for teachers include inputs relating to anti-ragging and the appreciation of the relevant human rights, as well as inputs on topics regarding sensitization against corporal punishments and checking of bullying amongst students, so that every teacher is equipped to handle at least the rudiments of the counseling approach.
- l) Discreet random surveys shall be conducted amongst the freshers every fortnight during the first three months of the academic year to verify and cross check whether the institution is indeed free of ragging or not and for the purpose the institution may design its own methodology of conducting such surveys.
- m) The institution shall cause to have an entry, apart from those relating to general conduct and behaviour, made in the Migration/Transfer Certificate issued to the student while leaving the institution, as to whether the student has been punished for committing or abetting an act of ragging, as also whether the student has displayed persistent violent or aggressive behaviour or any inclination to harm others, during his course of study in the institution.
- n) Notwithstanding anything contained in these Regulations with regard to obligations and responsibilities pertaining to the authorities or members of bodies prescribed above, it shall be the general collective responsibility of all levels and sections of authorities or functionaries including members of the faculty and employees of the institution, whether regular or temporary, and employees of service providers providing service within the institution, to prevent or to act promptly against the occurrence of ragging or any incident of ragging which comes to their notice.
- o) The Heads of Institutions affiliated to a University or a constituent of the University, as the case may be, shall, during the first three months of an academic year, submit a weekly report on the status of compliance with Anti-ragging measures under these Regulations, and a monthly report on such status thereafter, to



the Vice- Chancellor of the University to which the institution is affiliated to or recognized by.

- p) The Vice Chancellor of each University, shall submit fortnightly reports of the University, including those of the Monitoring Cell of Ragging in case of an affiliating university, to the State Level Monitoring Cell.

7. Action to be taken by the Head of the Institution

On receipt of the recommendation of the Anti-ragging Squad or on receipt of any information concerning any reported incident of ragging, the Head of institution shall immediately determine if a case under the penal laws is made out and if so, either on his own or through a member of the Anti-ragging Committee authorized by him in this behalf, proceed to file a First Information Report (FIR), within twentyfour hours of receipt of such information or recommendation, with the police and local authorities, under the appropriate penal provisions relating to one or more of the following, namely;

- i Abetment to ragging;
- ii Criminal conspiracy to rag;
- iii Unlawful assembly and rioting while ragging; iv Public nuisance created during ragging;
- v Violation of decency and morals through ragging;
- vi Injury to body, causing hurt or grievous hurt;
- vii Wrongful restraint;
- viii Wrongful confinement; ix Use of criminal force;
- x Assault as well as sexual offences or unnatural offences;
- xi Extortion;
- xii Criminal trespass;
- xiii Offences against property; xiv Criminal intimidation;
- xv Attempts to commit any or all of the above mentioned offences against, the victim (s);
- xvi Threat to commit any or all of the above mentioned offences against the victims (s);
- xvii Physical or psychological humiliation;
- xviii All other offences following from the definition of "Ragging":

Provided that the Head of the institution shall forthwith report the occurrence of the incident of ragging to the District Level Anti-ragging Committee and the Nodal officer of the affiliating University, if the institution is an affiliated institution.

Provided further that the institution shall also continue with its own enquiry initiated under clause 9 of these Regulations and other measures without waiting for action on



the part of the police/local authorities and such remedial action shall be initiated and completed immediately and in no case later than a period of seven days of the reported occurrence of the incident of ragging.

8. Duties and Responsibilities of the Commission and the Councils

8.1 The Commission shall, with regard to providing facilitating communication of information regarding incidents of ragging in any institution, take the following steps, namely;

- a) The Commission shall establish, fund and operate, a toll-free Anti-ragging Helpline, operational round the clock, which could be accessed by students in distress owing to ragging related incidents.
- b) Any distress message received at the Anti-ragging helpline shall be simultaneously relayed to the Head of the Institution, the Warden of the Hostels, the Nodal Officer of the affiliating University, if the incident reported has taken place in an institution affiliated to a University, the concerned District authorities and if so required, the District Magistrate, and the Superintendent of Police, and shall also be web enabled so as to be in the public domain simultaneously for the media and citizens to access it.
- c) The Head of the institution shall be obliged to act immediately in response to the information received from the Anti-Ragging Helpline, as at sub-clause (b) of this clause.
- d) The telephone numbers of the Anti-Ragging Helpline and all the important functionaries in every institution, Heads of institutions, faculty members, members of the anti-ragging committees and anti ragging squads, district and sub-divisional authorities and state authorities, Wardens of hostels, and other functionaries or authorities where relevant, shall be widely disseminated for access or to seek help in emergencies.
- e) The Commission shall maintain an appropriate data base to be created out of affidavits, affirmed by each student and his/her parents/ guardians and stored electronically by the institution, either on its or through an agency to be designated by it; and such database shall also function as a record of ragging complaints received, and the status of the action taken thereon.
- f) The Commission shall make available the database to a non-governmental agency to be nominated by the Central Government, to build confidence in the public and also to provide information of noncompliance with these Regulations to the Councils and to such bodies as may be authorized by the Commission or by the Central Government.

8.2 The Commission shall take the following regulatory steps, namely:

- a) The Commission shall make it mandatory for the institutions to incorporate in their prospectus, the directions of the Central Government or the State Level Monitoring Committee with regard to prohibition and consequences of ragging,



and that non-compliance with these Regulations and directions so provided, shall be considered as lowering of academic standards by the institution, therefore making it liable for appropriate action.

- b) The Commission shall verify that the institutions strictly comply with the requirement of getting the affidavits from the students and their parents/guardians as envisaged under these Regulations.
- c) The Commission shall include a specific condition in the Utilization Certificate, in respect of any financial assistance or grants-in-aid to any institution under any of the general or special schemes of the Commission, that the institution has complied with the anti-ragging measures.
- d) Any incident of ragging in an institution shall adversely affect its accreditation, ranking or grading by NAAC or by any other authorised accreditation agencies while assessing the institution for accreditation, ranking or grading purposes.
- e) The Commission may accord priority in financial grants-in-aid to those institutions, otherwise eligible to receive grants under section 12B of the Act, which report a blemish less record in terms of there being no reported incident of ragging.
- f) The Commission shall constitute an Inter-council Committee, consisting of representatives of the various councils, the Non-governmental agency responsible for monitoring the database maintained by the Commission under clause (g) of Regulation 8.1 and such other bodies in higher education, to coordinate and monitor the anti- ragging measures in institutions across the country and to make recommendations from time to time; and shall meet at least once in six months each year.
- g) The Commission shall institute an Anti-ragging Cell within the Commission as an institutional mechanism to provide secretarial support for collection of information and monitoring, and to coordinate with the State Level Monitoring Cell and University level Committees for effective implementation of anti-ragging measures, and the Cell shall also co-ordinate with the Non-governmental agency responsible for monitoring the database maintained by the Commission appointed under clause (g) of Regulation 8.1.

9. Administrative Action in the Event of Ragging

- 9.1 The institution shall punish a student found guilty of ragging after following the procedure and in the manner prescribed here in under:
 - a) The Anti-ragging Committee of the institution shall take an appropriate decision, in regard to punishment or otherwise, depending on the facts of each incident of ragging and nature and gravity of the incident of ragging established in the recommendations of the Anti-ragging Squad.
 - b) The Anti-ragging Committee may, depending on the nature and gravity of the guilt established by the Anti- ragging Squad, award, to those found guilty, one or more of the following punishments, namely:



- i. Suspension from attending classes and academic privileges.
- ii. Withholding/Withdrawing scholarship/fellowship and other benefits.
- iii. Debarring from appearing in any test/examination or other evaluation process.
- iv. Withholding results.
- v. Debarring from representing the institution in any regional, national or international meet, tournament, youth festival, etc.
- vi. Suspension/expulsion from the hostel.
- vii. Cancellation of admission.
- viii. Rustication from the institution for period ranging from one to four semesters.
- ix. Expulsion from the institution and consequent debarring from admission to any other institution for a specified period.

Provided that where the persons committing or abetting the act of ragging are not identified, the institution shall resort to collective punishment.

- c) An appeal against the order of punishment by the Anti- ragging Committee shall lie,
 - i. in case of an order of an institution, affiliated to or constituent part, of a University, to the Vice-chancellor of the University;
 - ii. in case of an order of a University, to its Chancellor.
 - iii. in case of an institution of national importance created by an Act of Parliament, to the Chairman or Chancellor of the institution, as the case may be.

9.2 Where an institution, being constituent of, affiliated to or recognized by a University, fails to comply with any of the provisions of these Regulations or fails to curb ragging effectively, such University may take any one or more of the following actions, namely;

- i. Withdrawal of affiliation/recognition or other privileges conferred.
- ii. Prohibiting such institution from presenting any student or students then undergoing any program of study therein for the award of any degree/diploma of the University.

Provided that where an institution is prohibited from presenting its student or students, the Commission shall make suitable arrangements for the other students so as to ensure that such students are able to pursue their academic studies.

- iii. Withholding grants allocated to it by the university, if any
- iv. Withholding any grants channelized through the university to the institution.
- v. Any other appropriate penalty within the powers of the university.



- 9.3 Where in the opinion of the appointing authority, a lapse is attributable to any member of the faculty or staff of the institution, in the matter of reporting or taking prompt action to prevent an incident of ragging or who display an apathetic or insensitive attitude towards complaints of ragging, or who fail to take timely steps, whether required under these Regulations or otherwise, to prevent an incident or incidents of ragging, then such authority shall initiate departmental disciplinary action, in accordance with the prescribed procedure of the institution, against such member of the faculty or staff.

Provided that where such lapse is attributable to the Head of the institution, the authority designated to appoint such Head shall take such departmental disciplinary action; and such action shall be without prejudice to any action that, may be taken under the penal laws for abetment of ragging for failure to take timely steps in the prevention of ragging or punishing any student found guilty of ragging.

- 9.4 The Commission shall, in respect of any institution that fails to take adequate steps to prevent ragging or fails to act in accordance with these Regulations or fails to punish perpetrators or incidents of ragging suitably, take one or more of the following measures, namely:
- Withdrawal of declaration of fitness to receive grants under section 12B of the Act.
 - Withholding any grant allocated.
 - Declaring the institution. ineligible for consideration for any assistance under any of the general or special assistance program of the Commission.
 - Informing the general public including potential candidates for admission, through a notice displayed prominently in the newspapers or other suitable media and posted on the website of the Commission, declaring that the institution does not possess the minimum academic standards.
 - Taking such other action within its powers as it may deem fit and impose such other penalties as may be provided in the Act for such duration of time as the institution complies with the provisions of these Regulations.

Provided that the action taken under this clause by the Commission against any institution shall be shared with all councils.

(Dr. R. K. Chauhan)
Secretary



ANNEXURE I AFFIDAVIT BY THE STUDENT

I, _____

S/o, D/o, Mr./Mrs./Ms. _____

having been admitted to _____
have received a copy of the UGC Regulations on Curbing the Menace of Ragging in
Higher Educational Institutions, 2009, (hereinafter called the "Regulations") carefully
"read and tully understood the provisions contained in the said Regulations.

- 2) I have, in particular: perused clause 3 of the Regulations and am aware as to what constitutes ragging.
- 3) I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am tully aware of the penal and administrative action that is liable to be taken against me in case I am found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.
- 4) I hereby solemnly over and undertake that :
 - a) I will not indulge in any behavior or act that may be constituted as ragging under clause 3 of the Regulations.
 - b) I will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.
- 5) I hereby affirm that, if found guilty of ragging, I am liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against me under any penal law or any law for the time being in force.
- 6) I hereby declare that I have not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, I am aware that my admission is liable to be cancelled.

Declared this _____ day of _____ month of _____ year.

Signature of deponent :

Name:



VERIFICATION

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at _____ (Place) on this the _____ (day)

of _____ (Month) _____ (Year)

Signature of deponent :

Solemnly affirmed and signed in my presence on this the

_____ (day) of _____ (Month) _____ (Year)

after reading the contents of this affidavit.

OATH COMMISSIONER



ANNEXURE II AFFIDAVIT BY PARENT/GUARDIAN

I, Mr./Mrs./Ms _____
father/mother/guardian of _____
having been admitted to _____

have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the "Regulations") carefully read and fully understood the provisions contained in the said Regulations.

- 2) I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.
- 3) I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the penal and administrative action that is liable to be taken against me in case I am found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.
- 4) I hereby solemnly over and undertake that :
 - a) My ward will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations,
 - b) My ward will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.
- 5) I hereby affirm that, if found guilty of ragging, my ward is liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against my ward under any penal law or any law for the time being in force.
- 6) I hereby declare that my ward has not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, the admission of my ward is liable to be cancelled.

Declared this _____ (day) of _____ (Month) _____ (Year)

Signature of deponent :

Name :

Address :

Telephone/Mobile No. :



VERIFICATION

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at _____ (Place) on this the _____ (day)
of _____ (Month) _____ (Year)

Signature of deponent :

Solemnly affirmed and signed in my presence on this the

_____ (day) of _____ (Month) _____ (Year)

after reading the contents of this affidavit.

OATH COMMISSIONER



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PUSHPAGIRI MEDICITY, TIRUVALLA-689 107

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SUBJECT LOG BOOK

M.PHARM



SESSIONAL EXAMINATIONS ASSESSMENT (Theory) M Pharm

Max Marks : 50

Roll. No.	Name	I st Sessional exam			II nd Sessional Exam		
		Theory Exam	Cam		Theory Exam	Cam	
			% Att	Seminar		% Att	Seminar
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SESSIONAL EXAMINATIONS ASSESSMENT (Practicals) M Pharm

Roll. No.	Name	I Sessional 30	Continuous Assessment Mode 20		Total Marks 50
1					
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5					
6					
7					
8					
9					
10					
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CONTINUOUS MODE ASSESSMENT (Theory)

Roll No.	Name of the Students	Attendance 8	Student Teacher Interaction 2	Total 10
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CONTINUOUS MODE ASSESSMENT (Practical)

Roll No.	Name of the Students	Attendance 10	Academic Performance 10	Total 20
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INTERNAL MARKS

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SEMINAR MARKS

IMPROVEMENT SESSIONALS (Theory)



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PUSHPAGIRI MEDICITY, TIRUVALLA-689 107

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SUBJECT LOG BOOK

PHARM-D



SESSIONAL EXAMINATIONS ASSESSMENT (Theory) Pharm D

Max Marks: 70

Roll No.	Name	I Sessional		II Sessional		III Sessional		Average Marks	Int. Marks	Attendance %
		Marks	Attendance %	Marks	Attendance %	Marks	Attendance %			
		70	%	70	%	70	%	70	30	
1										
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SESSIONAL EXAMINATIONS ASSESSMENT (Practicals) Pharm D

Max Marks: 70

Roll No.	Name	I Sessional		II Sessional		Average Marks	Average Marks	Record	Int. Marks	Attendance %
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MONTHLY TEST PAPER MARKS (THEORY)

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INTERNAL MARKS

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IMPROVEMENT SESSIONALS (Theory)

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COLLEGE
OF
PHARMACY

PUSHPAGIRI MEDICITY, TIRUVALLA-689 107

NAAC Accredited with 'A' Grade

SUBJECT LOG BOOK

B.PHARM



MONTHLY TEST PAPER MARKS (THEORY)

Roll No.	Name of the Students	1	2	3	4	5	6	7	8	9	10
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CONTINUOUS MODE ASSESSMENT (Practical)

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SESSIONAL EXAMINATIONS ASSESSMENT (Theory) B-Pharm

Max Marks: 25

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SESSIONAL EXAMINATIONS ASSESSMENT (Theory) B-Pharm

Max Marks: 25

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SESSIONAL EXAMINATIONS ASSESSMENT (Practicals) B-Pharm

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SESSIONAL EXAMINATIONS ASSESSMENT (Practicals) B-Pharm

Max Marks: 15

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IMPROVEMENT SESSIONALS (Theory)

2021 - 2022

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Sl. No	NAME OF STUDENTS	ELECTIVE SUBJECTS	DEPARTMENT	TITLE OF THE PROJECT	APPROVAL	NAME OF GUIDE	REMARKS
1	Emi Sam	Pharmacovigilance, Pharmaceutical Regulatory Sciences	Pharmacy Practice	AN EVALUATION OF KNOWLEDGE, ATTITUDE AND PRACTICE OF SOUTH INDIAN PHARMACIST TOWARDS ADVERSE DRUG REACTION REPORTING	PCP/IEC-010/01/BR-2022	Dr. Nithin Manokan	
2	PARASATHA PRASAD	Pharmacovigilance, Cosmetic Science			PCP/IEC-010/02/BR-2022		
3	DOUMYA KOSHT	Pharmacovigilance, Cosmetic Science			PCP/IEC-010/03/BR-2022		
4	ALEKHA ACHANKUNJU	Pharmacovigilance, Cosmetic Science			PCP/IEC-010/04/BR-2022		
5	PRINCY PRINCE	Pharmacovigilance, Cosmetic Science	Pharmacy Practice	EVALUATION OF KNOWLEDGE, ATTITUDE AND PRACTICE OF ADVERSE DRUG REACTION OF ANTI-BIOTIC USE AMONG GENERAL POPULATION	PCP/IEC-010/05/BR-2022	Mr. Manu	
6	SHREYA THIRUKRISHNAN	Pharmaceutical Regulatory Science, Pharmacovigilance			PCP/IEC-010/06/BR-2022		
7	SONA K. SAKSHI	Pharmacovigilance, Cosmetic Science			PCP/IEC-010/07/BR-2022		
8	DOUMYA SAMRAJ	Regulatory Science, Pharmacovigilance			PCP/IEC-010-08/BR-2022		
9	ANUSU NARAYANAN	Pharmacovigilance, Cosmetic Science			PCP/IEC-010-09/BR-2022	Mr. Archana Vijay	
10	ADITHYAN ARJANAM	Pharmaceutical Marketing	Pharmacy Practice	PRESCRIBING PATTERN OF DRUGS IN COVID PATIENTS WITH CARDIAC DISEASES	PCP/IEC-010-10/BR-2022		
11	DANNY JOHN	Pharmacovigilance, Cosmetic Science			PCP/IEC-010-11/BR-2022		
12	SHRUTHI HANESHDH	Pharmacovigilance, Cosmetic Science			PCP/IEC-010-12/BR-2022		
13	RISHMA MAHIM SURESH	Pharmacovigilance, Cosmetic Science			PCP/IEC-010-13/BR-2022		

Sl. No	NAME OF STUDENTS	EXECUTIVE SUBJECTS	DEPARTMENT
14.	ARYA P	Pharmacovigilance, Cosmetic Science	Pharmacy PRACTICE
15.	JOUVA SHAJI	Pharmacovigilance, Cosmetic Science	
16.	MAJIA VIZAR	Pharmacovigilance, Cosmetic Science	
17.	ROSE MARIA BOSE	Pharmacovigilance, Cell and Molecular Biology	
18.	SAJESHA MOOR	Pharmacovigilance Cosmetic Science	

TITLE OF THE TOPIC	APPROVAL	NAME OF GUIDE	REMARK
A STUDY ON ANTIBIOTIC THERAPY FOR VARIOUS DENTAL PROBLEMS OF PATIENTS VISITING A DENTAL COLLEGE IN SOUTH KERALA.	PCP/IEC-010/ 14/BP-2022	MAJINIS	
	PCP/IEC-010/ 15/BP-2022		
	PCP/IEC-010/ 16/BP-2022		
	PCP/IEC-010/ 17/BP-2022		
	PCP/IEC-010/ 18/BP-2022		

2021-2022

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SL No	NAME OF STUDENTS	ELECTIVE SUBJECTS	DEPARTMENT	TITLE OF THE PROJECT	NAME OF THE GUID	REMARKS
19	CHRISTIANA JOSEPH	Cosmetic Science, Quality control and standardisation of Herb. Cosmetic Science, Quality control and standardisation of Herb.	Pharm cog. NOST	PHARMACOGNOSTICAL STUDY OF MELASTOMA MALABATHRICUM	Mr. Jeeva Joseph	94
20	Simi Mathew					
21	NEELIN JASU	Quality control and standardisation of Herb, Cosmetic science				
22	NITY ANNA CYRINE	Quality control and standardisation of Herb, Cosmetic science	Pharm cogl. OSY	DEVELOPMENT AND EVALUATION OF A POLYHERBAL LAXATIVE SYRUP	Ms. Lissy. S	94
23	NEENA GEORGE	Quality control and standardisation of Herb, Cosmetic science				
24	ANITHA NARAYAN VARADHARAJ	Quality control and standardisation of Herb Cosmetic science				
25	RESMI CUREKO	Quality control and standardisation of Herb, Cosmetic science	Pharmacogn- OSY	PHYTOCHEMICAL SCREENING AND STANDARDIZATION OF KALAMFENIA GALANGA LEAVES.	Ms. Anja. A	94
26	SHANI JOSE	Quality control and standardisation of Herb Cosmetic science				

8

SL NO	NAME OF STUDENTS	ELECTIVE SUBJECTS	DEPARTMENT	TITLE OF THE PROJECT	NAME OF THE GUIDE	REMARKS
27.	Sushitha Shaji	Experimental - Pharmacology, Pharmacovigilance.	Pharmacology.	Yours Evaluation of the Synergistic Anti Inflammatory Activity of Ginger, Glicirrhiza and Asparagus Rammaru Extracts.	Mrs. Preethu. P. John	Pl
28.	Altha Shamoyan Shaji	Cosmetic Science Pharmaceuticals	Pharmaceutics	Formulation and Evaluation of Antidandruff Shampoo.	Mrs. Deepthy Mathur	Amplified
29.	Anya-Jaison	Cosmetic Science Pharmaceutical Marketing				
30.	Uthu Binoy	Cosmetic Science Pharmaceutical Marketing				
31.	Kejija Eljeshth Jacob	Cosmetic Science Pharmaceutical Marketing				
32.	Tejivika R	Cosmetic Science Pharmaceuticals				
33.	Anusha Varghese	Cosmetic Science Pharmaceuticals				
34.	Reba Ranjan	Cosmetic Science Pharmaceuticals				
35.	Maikel. K. Rasheed	Cosmetic Science Pharmaceutical Marketing	Pharmaceutics	Evaluation of skin Protection Factor of A Cream Formulation Prepared from Herbal Extract of Tagarajia	Mrs. Binoy. S. Chacko	Amplified
36.	Ravethy PV	Cosmetic Science Pharmaceutical Marketing				
37.	Sangeetha NS	Cosmetic Science Pharmaceuticals				

No.	Name of the Student	Subject taught	Department	Title of the Project	Name of the Guide	Remarks
38.	Marjory Jose Neachent	Pharmacognosy				
39.	Nyria Rose Thomas	Cosmetic Science	Pharmaceutical	Design, Evaluation and Comparative study of Pomegranate Lip Balm with Beetroot Lip Balm	Mr. Anyane NN	Below
40.	Rashma Benny	Cosmetic Science	Pharmaceutical			
41.	Shyla A. Vokob	Cosmetic Science	Pharmaceutical			
42.	Sumetha Sae Nothas	Cosmetic Science	Pharmaceutical			
43.	Mika Rachel Abraham	Cosmetic Science	Pharmaceutical			
44.	Merin	Cosmetic Science	Pharmaceutical			
45.	Abhisat Muhammed	Cosmetic Science	Pharmaceutical			
46.	Rishma A Day	Cosmetic Science	Pharmaceutical			
47.	Ritha Mary Reji	Cosmetic Science	Pharmaceutical			
48.	Opriya S. Chinn	Cosmetic Science	Pharmaceutical			
49.	Arthya Ann Roy	Cosmetic Science	Pharmaceutical			
50.	Althy Joseph	Cosmetic Science	Pharmaceutical			
51.	Kiya Meni George	Cosmetic Science	Pharmaceutical			
52.	Shela Abraham	Cosmetic Science	Pharmaceutical			

2021-2022

12

Sl. No	NAME OF STUDENTS	RESPECTIVE SUBJECTS	DEPARTMENT
S3	Anila Thomas	Pharmacokinetics Cosmetic Science	
S4	Denika B	Pharmacokinetics Cosmetic Science	Pharmaceutics
S5	Jandna Anil	Cosmetic Science Pharmacokinetics	
S6	Riya Pol Siri	Cosmetic Science Pharmaceutics Toxicology	
S7	Sharon G Shojin	Cosmetic Science Pharmacokinetics	

13

TITLE OF THE PROJECT	NAME OF THE GUIDE	REMARKS
Formulation and Evaluation of Herbal Anticancer Gel Cream	Mrs. Suelanya B	



Principal
Pushpagiri College of Pharmacy
Med. Off. Officer, Thrissur
Kerala - 686 012

QUESTION BANK



**PUSHPAGIRI COLLEGE OF PHARMACY, TIRUVALLA
FIRST YEAR PHARM D DEGREE**

**PHARMACEUTICAL INORGANIC CHEMISTRY
QUESTION BANK**

UNIT 1 ERRORS

Essays

1. What are the different types of errors and explain the types of systematic errors and procedure for minimizing the systematic errors?
2. Define accuracy and precision. List and describe different types of errors in quantitative analysis. Discuss methods to reduce errors in quantitative analysis.

Short Notes

1. Distinguish between:
 - a. Determinate and indeterminate errors
 - b. Accuracy and precision
2. Classify different types of errors encountered in volumetric analysis.
3. Explain the different types of errors
4. Explain the following terms:
 - a. Error
 - b. Determinate error
 - c. Accuracy
 - d. Precision
 - e. Significant figures
5. Distinguish between:
 - a. Determinate and indeterminate errors
 - b. Accuracy and precision
6. Define and classify errors with examples



7. Classify errors? What are the methods to minimize errors in analytical procedures?

UNIT 2 VOLUMETRIC ANALYSIS

Essays

1. Define the following terms: Titrant Titrand Titration.
With the help of titration curve suggest the best indicators for the titration involving strong acid vs strong base. Discuss the preparation and standardization of 0.1 M acetous per chloric acid.
2. Define primary and secondary standards with examples. Explain the titration curve for strong acid versus strong base. Mention the ideal characters for a primary standard.

Short Notes

1. What are secondary standards. Discuss their characteristics.
2. What are the criteria for the selection of indicators and write a note on preparation of standard solutions?
3. What is standard solution, primary standard and secondary standard and explain the requirements for the substances used as primary standard.
4. What are primary standards. Discuss their characteristics.
5. Explain the following terms in analysis
 - a. Blank titration
 - b. Back titration
6. How do you prepare the following solutions:
 - a. 0.1M potassium permanganate (MW= 158)
 - b. 0.1N oxalic acid (MW= 90)
7. How do you prepare 50.0 ml of 0.25M NaOH (Molecular weight=40)
8. Note on solubility product

UNIT 3 ACID-BASE TITRATIONS



Essays

1. Classify volumetric methods and briefly explain each method. Explain Bronsted-Lowry and Lewis concept of acids and bases.
2. What are neutralization titration and explain the theories of acid base concept
3. Explain three important buffer systems and its role in physiological acid base balance. Add a note on the preparation and assay of potassium acetate.

Short Notes

1. Explain the theory of acid base titration with examples.
2. What are acid base titrations? Explain with one example mentioning the primary standard, titrant and indicator used.
3. Theory of indicators in acid-base titrations
4. Explain the theory of neutralization indicator.

UNIT 4 REDOX TITRATIONS

Essays

1. What are red-ox indicators. How will you prepare and standardize 0.1 M potassium permanganate solution? Discuss on the stability of complexes in complexometry titration.
2. Describe the theory of redox titration and explain the preparation and standardization of 0.1M potassium dichromate solution.
3. Discuss the different types of redox titrations with examples

Short Notes

1. Define redox potential and mention Nernst equation. Explain characteristics of redox indicators with suitable example.
2. What are the salient features of a redox titration curve?
3. What are redox titrations? Explain with example



4. Note on any four indicators used in redox titrations
5. Give the principle behind the assay of ferrous sulphate by permanganometry.



UNIT 5 NON-AQUEOUS TITRATIONS

Essays

1. Explain the principle behind non-aqueous titrations. Mention the different types of solvents and the indicators used. Add a note on "solvent leveling effect".
2. Explain the types of solvents used in non-aqueous titration. Explain the preparation and standardization of 0.1N perchloric acid.
3. What is non-aqueous titration. Discuss the types of solvents for non-aqueous medium and explain the types of non-aqueous titration.
4. Explain the principle behind non-aqueous titrations, taking the example of titration of halogen salts of bases.
5. What is non-aqueous titration. Explain the basic principle involved in these titrations. Mention two examples each for titrants and indicators used.

Short Notes

1. Classify solvents used in non-aqueous titrations with suitable examples.
2. Explain the method of preparation and standardization of perchloric acid solution.

UNIT 6 PRECIPITATION TITRATIONS

Essays

1. What are precipitation titrations. Explain Mohr's method and modified Volhard's method.
2. Explain the different types of precipitation titrations.

Short Notes

1. Explain modified volhard method with reactions.
2. Explain Fajan's method of precipitation titrations.
3. Differentiate Mohr's method from Volhard's method.
4. Explain the precipitation titrations with an example



5. Describe Mohr's method of standardization of silver nitrate solution

UNIT 7 COMPLEXOMETRIC TITRATIONS

Essays

1. Discuss the following types of complexometric titrations, with suitable examples
 - a. Direct titration
 - b. Back titration
 - c. Replacement titration
 - d. Titrations involving masking and de-masking agents
2. What are the PM indicators used in complexometric titrations? How is the endpoint detected using PM indicators? What are the physical methods of end point determination in complexometric titrations?
3. Discuss the theory behind complexometric titrations. Mention the details of the titrants and indicators used in complexometric titrations.

Short Notes

1. Explain different types of complexometric titrations.
2. What are masking and demasking agents in complexometric titration and give some examples.
3. How will you prepare and standardize 0.5M disodium EDTA solution?
4. With an example explain complexometric titrations.
5. What are complexes? Describe the importance of pH Control in complexometric titrations
6. Note on any two indicators used in complexometric titrations and their color change.

UNIT 8 THEORY OF INDICATORS

Essays



1. Define indicators. Discuss the Ostwald theory and quinoid theory of indicator in detail.

Short Notes

1. Explain the theory of indicators.
2. Briefly explain the quinonoid theory of indicators.

UNIT 9 GRAVIMETRY

Essays

1. Explain on various steps involved in gravimetric analysis.

Short Notes

1. Explain with suitable example the co-precipitation and post-precipitation.
2. Briefly explain the various steps involved in gravimetric method of analysis.
3. Discuss the conditions required for getting a crystalline precipitate.
4. Describe the ignition and incineration step in gravimetric analysis.
5. What are the steps involved in the gravimetric analysis? Explain with an example

UNIT 10 LIMIT TESTS

Essays

1. Explain how the limit test for arsenic is performed.
2. Define limit test. Discuss the principle involved in the limit test for arsenic with suitable diagrams and reactions. Justify the addition of each reagent
3. Explain the principle, reaction and procedure involved in the limit test of iron and sulphates.
4. Discuss the principle and procedure involved in the limit test for iron, explaining the role of each reagent used.
5. Explain the principle and general procedure involved in the limit test for chlorides and sulphates. Why and what modification is required for substances which are



precipitating in acidic media.

6. Explain the principle behind the limit tests for sulphates and the limit test for iron.
7. How do you carry out the limit test for chlorides and sulphates for the sample of sodium salicylate? Explain with principle and procedure.

Short Notes

1. Discuss the principle involved in the limit test for sulphate and chloride
2. Explain the principle involved in the limit test for iron, with reactions.
3. Describe the principle and procedure involved in the limit test of arsenic with a neat diagram.
4. Explain the principle involved in the limit test for heavy metals.
5. Why iron is an impurity in pharmaceuticals. Discuss the principle and procedure involved in the limit test for iron
6. What is the role of?
 - a. dilute nitric acid in chloride limit test
 - b. granular zinc in arsenic limit test
7. What is the modification required for potassium permanganate sample to carryout sulphate limit test?
8. Why do you use citric acid and ammonia in iron limit test?

UNIT 11 MEDICINAL GASES

Essays

1. Explain on the principle, procedure and apparatus used in the assay of oxygen
2. Explain on the principle, procedure and apparatus used in the assay of carbon dioxide

Short Notes

1. Discuss in detail the test for purity of oxygen IP.
2. Explain the preparation, properties, storage and uses of nitrous oxide.
3. The test for purity, storage and uses of nitrous oxide.



4. Method of preparation and uses of oxygen and carbon dioxide.
5. Discuss in detail the assay of oxygen.
6. How are the following tests performed in the medicinal gas 'oxygen'
 - a. test for oxidising substances
 - b. test for halogens
 - c. test for acidity or alkalinity
7. Discuss the various tests that oxygen as a medical gas has to comply with.
8. Name any three medicinal inhalants with their uses. Explain how they are supplied and stored.
9. Mention the method of assay of oxygen and the storage conditions.
10. Give the storage condition for:
 - a. carbon dioxide
 - b. oxygen
 - c. nitrous oxide
11. Brief the properties of oxygen and nitrous oxide

UNIT 12 ACIDIFIERS

Essays

1. Define acidifiers. Classify them with examples. Give the principle, reactions and procedure involved in assay of ammonium chloride

Short Notes

1. What are acidifiers. Explain the test for purity, identification test and medicinal uses of sodium phosphate and ammonium chloride
2. What are acidifiers and alkalisers? Explain its role as pharmaceutical aids.



3. What are gastric acidifiers. In which condition they are used?
4. How dilute hydrochloric acid is prepared? Mention its uses.
5. How do you prepare ammonium chloride? Mention the pharmaceutical uses
- 6.

UNIT 13 ANTACIDS

Essays

1. What are antacids. Classify antacids. Explain the preparation, assay, storage and uses of aluminium hydroxide gel.
2. Define and classify antacids with examples and mention the medicinal uses of sodium bicarbonate, magnesium trisilicate and magnesium hydroxide oral suspension.
3. Classify antacids with one example each class. Mention any four ideal characters of an antacid. Mention one method of preparation of sodium bicarbonate.
4. Classify gastrointestinal agents giving examples. Explain its mechanism of action of each class and medicinal uses.

Short Notes

1. Discuss the ideal properties of Antacids
2. How acid neutralizing capacity of antacids is determined.
3. Discuss the preparation of Aluminium hydroxide gel. List the test for purity for $\text{Al}(\text{OH})_3$ gel as per IP
4. Explain the following terms and mention two examples for each:
 - a. Systemic and non-systemic antacids
 - b. Cathartics
5. What is the rationale behind the combination of both magnesium and aluminium salts in antacid formulations?
6. How the acid neutralizing capacity of antacids is determined?



7. Explain the principle involved in the assay of sodium bicarbonate
8. What are the ideal requirements of an antacid? How do you evaluate antacid property in-vitro?
9. How do you prepare sodium bicarbonate? What is the disadvantage of this drug as antacid?
10. How do you prepare aluminium hydroxide?
11. What is antacid combination therapy.

UNIT 14 CATHARTICS

Essays

1. Define cathartics. Classify them with examples. Give the method of preparation and assay of any one.

Short Notes

1. Explain the following term and mention two examples of cathartics
2. Explain the mechanism by which saline cathartics work.
3. Mention the method of preparation and assay of magnesium sulphate
4. What are saline cathartics. Mention the mechanism of action and give examples
5. Mention the medicinal uses of : Magnesium Hydroxide & Magnesium sulphate

UNIT 15 ELECTROLYTE REPLENISHERS

Essays

1. What is electrolyte replacement therapy? Write conditions of this therapy and their management by electrolytes and fluids.



2. Explain the preparation and assay method for sodium lactate. Add a note on ORS and its components.
3. Mention the composition of Ringer's solution and its specific uses. Explain the method of preparation of sodium acetate and mention the physiological role of phosphate & calcium ions.
4. Explain the mechanism by which acid-base balance is maintained in our body. Discuss electrolyte combination therapy.

Short Notes

1. Electrolyte combination therapy.
2. What are the official preparations of sodium chloride and mention its uses.
3. Explain electrolyte combination therapy
4. How physiological acid base balance is maintained.
5. Narrate the physiological role of potassium, magnesium and bicarbonate ions
6. Mention the medicinal uses of: Sodium acetate & Potassium chloride

UNIT 16 ESSENTIAL TRACE ELEMENTS

Essays

1. What is the biological importance of iron? Describe the preparation and assay procedure of ferrous sulphate. Name any two other iron containing compounds official in IP.

Short Notes

1. Mention the important physiological roles of iron and copper.
2. Physiological role of selenium and Iron in human health.
3. Explain the physiological role of zinc and copper.
4. Explain the physiological role of zinc and selenium.
5. Explain the physiological role of iron
6. Mention the physiological roles of zinc and iodine.
7. List the iron compounds that are official in IP. Discuss the preparation of any one



of them.

8. Discuss the physiological role of zinc and manganese in human health.
9. What are essential trace elements. Give two examples.
10. How do you prepare dicalcium phosphate?
11. What is the physiological role of iron and iodine?

UNIT 17 ANTIMICROBIALS

Essays

1. Define germicides, sanitizers, bacteriostatic and disinfectants. Explain the mechanism of action of antimicrobial agents.
2. Explain the mode of action of inorganic antimicrobials agents. Mention the typical properties of silver compounds as antimicrobials.

Short Notes

1. Explain the monograph of hydrogen peroxide
2. Explain the preparation, assay and uses of boric acid.
3. Define antimicrobial, disinfectant and antiseptics and add a note on chlorinated lime.
4. Explain any one method of preparation, assay and use of hydrogen peroxide.
5. Explain why boric acid cannot be directly titrated against alkali. Mention the medicinal uses of boric acid.
6. Discuss the preparation of chlorinated lime. Elaborate on test for halides in chlorinated lime.
7. How does potassium permanganate act as anti-infective agent?
8. Discuss one method of preparation of hydrogen peroxide. Mention how hydrogen peroxide is stabilized.
9. Define and classify antimicrobials with examples
10. Explain the principle involved in the assay of chlorinated lime



11. Explain the mechanism of action of inorganic antimicrobials giving examples
12. Mention the chemical reactions and explain the principle involved in the assay of boric acid
13. How do you prepare and assay boric acid.
14. Iodine as antimicrobial agent
15. Explain the preparation, storage and labeling requirement for hydrogen peroxide
16. An abstracted monograph on boric acid IP.
17. Discuss in detail preparation and assay of iodine tincture.
18. Discuss the medicinal uses of the following:
 - a. Chlorinated lime
 - b. Boric acid
 - c. Selenium sulphide

UNIT 18 PHARMACEUTICAL AIDS

Essays

1. Define antidotes and classify antidotes with one example each. Mention one method of preparation each for sodium nitrite and sodium thiosulphate.

Short Notes

1. Outline the specific use of each of the following as a pharmaceutical aid:
 - a. Activated charcoal
 - b. Nitrogen gas
 - c. Dibasic calcium phosphate
 - d. Light kaolin
 - e. Talc
2. Name five substances used as pharmaceutical aid for the specific purpose as: a.



- a. Anti oxidants
 - b. Absorbents and adsorbents
3. Mention the specific use of each of the following as a pharmaceutical aid:
 - a. Bentonite
 - b. Titanium dioxide
 - c. Magnesium stearate
 - d. Silica gel
 - e. Talc
 4. Emulsifying and suspending agents and its importance in formulations
 5. What is adsorption capacity test for heavy kaolin?
 6. Mention the specific medicinal uses of each of the following: Zinc stearate & Sodium bisulphite

UNIT 19 DENTAL PRODUCTS

Essays

1. What are dentrifices? Classify dentrifices with examples. Explain on flourides as anticaries agents.

Short Notes

1. What are desensitizing agents? Explain the role of fluorides in the treatment of dental caries.
2. Explain the term dentifrices
3. Discuss the role of fluorides as anticaries agents and give the preparation and uses of sodium fluoride.
4. What are dentifrices. Mention the preparation and medicinal uses of strontium chloride and dibasic calcium phosphate.
5. Define dentifrices. Classify dental products with one example each class.
6. Explain the role of flourides as anti anticaries agents
7. What are abrasives? How do you prepare and assay zinc chloride?



8. Medicinal use of each of the following:

- Calcium Carbonate
- Zinc chloride S
- Sodium fluoride

UNIT 20. MISCELLANEOUS COMPOUNDS

Essays

1. What are expectorants. Classify expectorants with suitable examples. Explain the preparation and assay of ammonium chloride.

Short Notes

1. What is the chemical composition of bentonite. Mention its use and the test for purity.
2. The test for purity, storage and uses of sodium metabisulphite.
3. Define antidotes and classify antidotes with one example each. Mention one method of preparation each for sodium nitrite and sodium thiosulphate.
4. What are topical agents and classify with examples. Mention the method of preparation and its specific uses of any two topical agents.
5. Explain the method of preparation, assay and medicinal uses of potassium iodide
6. Medicinal uses of: Potassium bromide, Activated charcoal & Potassium iodide

UNIT 21. RADIO PHARMACEUTICALS

Essays

1. Differentiate isotopes and isobars. Discuss in detail on radiation hazards and safety measures in handling radioisotopes. Discuss on isotopes of iodine and their applications in medical science.
2. Define isotopes and radioactivity. Explain the working of GM-counter with neat and labelled diagram. Discuss in detail the applications of radioisotopes in the diagnosis and treatment of diseases.

Short Notes

1. Explain the term radioactivity



2. Explain the radiation hazards and the safety measures to be taken in handling radio pharmaceuticals"
3. Mention the important precautions for handling radiopharmaceutical products.
4. Explain three types of radio-pharmaceutical radiations"
5. Discuss any two important radioactive isotopes in medicine
6. Explain the radio-isotopes Iodine-131 and Gold-198
7. Five diagnostic and therapeutic uses of radio-nuclides.



MEDICINAL CHEMISTRY III-QUESTION BANK

Unit I-ANTIBIOTICS

10 Marks

1. Write down the stereochemistry , classification and chemical degradation of penicillins
2. Write down the SAR of penicillins. Write in detail on chemistry of beta lactam antibiotics
3. Write down the classification and chemistry of tetracyclines
4. Write down the mode of action, chemistry, classification and SAR of cephalosporins

5 Marks

1. Write down the chemistry of polyene antibiotics
2. Write a note on aminoglycoside antibiotics
3. Chemical degradation of penicillins
4. Write down the SAR of penicillins
5. Structure and uses of any four tetracyclines
6. Structure and uses of any four semi-synthetic penicillins

2 Marks

1. Monobactams
2. Structure of any two cephalosporins
3. Mechanism of aminoglycoside antibiotics
4. Lactamase inhibitors
5. Structure and uses of any two second generation cephalosporins

UNIT II-ANTIBIOTICS, PRODRUGS, ANTIMALARIALS

10 Marks

1. Write in detail on macrolide antibiotics
2. Basic concept and applications of prodrugs
3. Write in detail on classification and SAR of quinolines

5 Marks

1. Write a chemistry of macrolide antibiotics
2. Structure, synthesis and uses of chloramphenicol
3. Advantages of prodrugs
4. Etiology of malaria
5. Biguanides
6. Synthesis and uses of Chloroquine
7. 8-amino quinolines
8. Miscellaneous agents
9. Synthesis of pamaquine

2 Marks

1. Structure and uses of 4-amino quinolines
2. Any two applications of prodrugs
3. Structure of pyrimethamine

UNIT III-ANTI-TUBERCULAR AGENTS, UTI AGENTS, ANTIVIRAL AGENTS

10 Marks

1. Write down the SAR and Classification of Anti-tubercular agents
2. Write in detail on synthetic antitubercular agents. Enumerate the synthesis of INH
3. SAR and classification of quinolones
4. Define and classify antiviral agents. Write in detail on purine nucleoside analogues
5. Define and classify antiviral agents. Write in detail on Reverse Transcriptase Inhibitors.

5 Marks

6. Steps in Viral life cycle.
7. Synthesis of nitrofurantoin
8. Anti tubercular antibiotics
9. Synthesis, Mechanism and uses of p-amino salicylic acid
10. Synthesis and uses of Acyclovir
11. HIV -Protease inhibitors
12. Synthesis of ciprofloxacin

2 Marks

1. Structure of pyrimidine nucleosides
2. Adamantane amines
3. Structure of any two first generation quinolones
4. Structure of any two second generation quinolones

**UNIT IV-ANTIFUNGAL AGENTS, ANTIPROTOZOAL,
ANTHELMINTICS, SULPHONAMIDES AND SULPHONES**

10 Marks

1. Define and classify antifungal agents. Write in detail on synthetic antifungal agents
2. Write down the chemistry and classification of antifungal antibiotics. Enumerate the synthesis of Miconazole
3. Define and classify anti-protozoal agents. Enumerate the synthesis of metronidazole
4. Define and classify anthelmintics. Write in detail on piperazines and Benzimidazole derivatives.
5. Classification, chemistry and SAR of sulfonamides
6. Define sulphonamides and explain its mechanism of action. Write in detail on sulphonamides for local infections. Enumerate the synthesis of sulfacetamide.

5 Marks

1. Antifungal antibiotics
2. Synthesis of miconazole
3. Structure, synthesis and uses of tolinaftate
4. Write a note on synthetic antifungal agents
5. Define and classify antifungal agents
6. Synthesis and uses of metronidazole
7. Write down the mechanism of action and synthesis of Metronidazole
8. Classify antiprotozoal agents with its structure
9. Benzimidazole anthelmintics. Enumerate the synthesis of mebendazole
10. Structure, synthesis and uses of Diethyl carbamazine citrate

11. Structure and uses of any 3 anthelmintic agents
12. Chemistry of sulphonamides
13. Structure, synthesis and uses of sulphamethoxazole
14. Folate reductase inhibitors
15. Synthesis of Trimethoprim
16. Write a note on Sulphones
17. Synthesis and uses of Dapsone
18. SAR of sulphonamides
19. Synthesis of sulphacetamide

2 Marks

1. Structure and uses of any two synthetic antifungal agents
2. Structure and uses of any two anti-protozoal agents
3. Structure of any 2 anthelmintics
4. Structure and uses of any two sulphonamides for general infection
5. Structure and uses of any two sulphonamides for urinary tract infection
6. Structure of sulfasalazine and sulfadiazine

UNIT V-INTRODUCTION TO DRUG DESIGN, COMBINATORIAL CHEMISTRY

10 Marks

1. Write a note in QSAR and its parameters
2. Concept and applications of combinatorial chemistry
3. Various approaches used in drug design
4. Physiochemical parameters used in quantitative structure
5. Pharmacophore modelling and docking techniques

5 Marks

1. Write a note on molecular modelling
2. Solid phase synthesis
3. Hansch analysis
4. Docking Techniques
5. Solution phase synthesis
6. Hammett's Electronic parameter
7. Partition coefficient-QSAR parameter

2 Marks

1. Define pharmacophore modelling
2. Any two applications of combinatorial chemistry
3. Taft's steric parameter
4. Define Linker and Anchor
5. Parallel synthesis

A REPORT ON
INAUGURATION AND ORIENTATION OF B. PHARM AND PHARM.D
2021-22 ACADEMIC YEAR

Date: 01/11/21

10.00AM

On November 1, 2021, the Mar Theophilos Annexe auditorium hosted the Inauguration and Orientation of the 2021-22 class of B. Pharm and Pharm D students. Prof.Dr. Santosh.M. Mathews, (Principal of the institution) delivered an eloquent welcoming address.

The Presidential address was given by Rev. Fr. Aby Vadakkumthala (Director- Institutions).H.G. Most Rev.Dr. Thomas Mar Koorilos (Metropolitan Archbishop, Archdiocese of Thiruvalla) officially opened the ceremony with a benedictory speech and a lamp lighting ceremony. Ms Julle Mariyam Joshua, Chief Editor of News Letter, handed over to Msgr. Rev. Dr. Issac Parappallil (Vicar General Archdiocese of Thiruvalla) with the first copy of the 6th volume of the college newsletter-PHARMA ECHO on this auspicious occasion.

H.G.Most Rev.Dr.Thomas Mar Koorilos) (Metropolitan Archbishop of thiruvalla) was honoured by Prof. Dr.Prasanna Kumaran (HOD,Department Of Pharmaceutical Chemistry). Ms. Jisssina daughter of A.D. Molly was selected for the Archbishop Mar Koorilos episcopal silver jubilee scholarship as part of the institutional support to the staff members for the professional education of their children.A fund raised by the staff and students of the institution was handed over to H.G. Most Rev.Dr. Thomas Mar Koorilos for his episcopal silver jubilee House for houseless scheme. Dr.K.George Varghese (Principal, Pushpagiri College of Dental Sciences) and Ms. Neha M.K (Second year Pharm.D student) felicitated the attendees.

As a token of our sincere gratitude, Mementos were presented to H.G. Most Rev.Dr. Thomas Mar Koorilos, Rev.Msgr.Dr. Isaac Parappallil, and Dr.K.George Varghese.

Vice Principal Dr. Christy K Jose offered the vote of gratitude.

The National Anthem brought the show to a close.


Principal

Principal
Pushpagiri College of Pharmacy
Medicity Campus, Tiruvalla
Kerala - 689 107, Kerala




Convenor