



**OFFICE OF THE DIRECTOR/PRINCIPAL**  
**GOVERNMENT COLLEGE OF PHARMACY, ROHRU**  
**TEHSIL ROHRU, DISTT. SHIMLA-171207, HIMACHAL PRADESH**  
**(An ISO 9001:2015 certified institute)**

Recognized by PCI/AICTE; Affiliated to Himachal Pradesh Technical University, Hamirpur  
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**2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode.**

**Supporting Documents**

Kindly find below the attached documents for the required information for the assessment period authenticated by the Director/ Principal on the letterhead of HEI.



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**2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode:**

The institute has the utmost responsibility to address the issues of students and the expectations of all stakeholders. For which there is well designed and implemented teaching-learning and evaluation process.

The induction program organized for the first year's students is a week-long program in which students are apprised of various departments, curricula, and staff members. The special lectures organized during this program also make them more explorative and interactive during feedback sessions. They are also provided with the details of examination patterns both for theory and practice.

As the college is affiliated with HPTU thus the Institute implements a well-designed structured format for teaching learning and evaluation reforms. The institution has an integrated examination platform for continuous internal evaluation in accordance with the university examination regulations. In the college, besides on line platform (gcpexam) an examination committee is formed to coordinate and conduct internal Examinations.

Evaluated sessional theory answer sheets are shown to the students individually and every sessional assessment is displayed on the notice board. Examination committee supervises the accurate entry of internal marks for submission to the university and for the institute record. The institute has a well-maintained record of all the exams conducted since the inception of the course.

Teachers are well acquainted with the evaluation process and the courses attended by the teachers like curriculum-based designing, rubrics, evaluation and designing of question papers (NITTTR Chandigarh) help to refine the evaluation process.

**The process of Examination:**

The question papers are precisely formulated as per the directions of the PCI/HPTU and are further evaluated by the principal to ensure the utmost implementation of the university guidelines.

**Frequency:**

Number of sessional examinations in a semester: 03 (2 + 1 improvement exam)

Best of two averages considered for final marks to upload on the University Portal

The same pattern followed for practical Main theory and practical examinations.

  
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Final Practical marks uploaded on university portal (ERP) by external examiner with the consent of internal examiner.

**Formative evaluation approaches:**

Behavioural Assessment (Academic/Non-Academic)

Attendance (Theory/ Practical)

Seminars (confidence and oratory skills of the students)

Tests (frequent written class tests/ verbal examination/viva voce)

Practical performance.


**Summative evaluation approaches:**

**Theory Written Examination**

**Practical Examination:** The institution follows a transformative and progressive evaluation process as prescribed by the PCI and HPTU and the institution adheres strictly to the guidelines the norms for conducting internal and external exams. The final evaluation is conducted by the university for which the examination panel/evaluation panel is formulated at the university level.



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	<b>Government College of Pharmacy Rohru</b>	Roll No. ....
	First Sessional Examination (Theory)	
Semester: IV	Subject Name: <b>Physical Pharmaceutics-II</b> Subject code: 403T	Date: .....
Time = 1 hour	<b>Instructions:</b> ➤ Question paper is divided into A, B, C sections. Attempt all questions from Section A ➤ Attempt any two questions from Section B ➤ Attempt any one question from Section C	MM = 30
		Units covered: I, II
		Total Pages: 01

**Section A (10 x 1 = 10 Marks)**

Q.1 (a)	Which of the following properties of colloids does not depend on the charge on particles? (A) Coagulation (B) Electro-osmosis (C) Electrophoresis (D) Tyndall effect
(b)	The term used to determine the protecting power of a lyophilic colloid is (A) oxidation number (B) coagulation value (C) critical micelle concentration (D) gold number
(c)	If the concentration of surfactant molecules increases above the CMC, then they (A) become soluble (B) decompose (C) dissociate (D) associate
(d)	The position occupied by non-polar hydrophobic and polar hydrophilic group in a micelle is (A) non-polar towards the outside and polar towards inside (B) both present only at the surface (C) both distributed throughout (D) polar towards the outside & non-polar towards inside
(e)	Suspension of starch in water shows which type of flow? (A) Plastic (B) Pseudoplastic (C) Newtonian (D) Dilatants
(f)	If neither the deformation strain, nor its derivative with time (rate) follows the applied stress then the material is (A) Elastic (B) Solid (C) Viscoelastic (D) Fluid
(g)	Glycerine show which type of flow? (A) Plastic (B) Pseudoplastic (C) Dilatant (D) Newtonian
(h)	Thixotropic behavior is shown by (A) Bentonite (B) silica (C) pectin (D) starch
(i)	According to Schulze-Hardy rule, the precipitating power increases rapidly with the (A) Association (B) Negative (C) Neutral (D) Positive
(j)	The continuous collisions between the colloidal particles and molecules of dispersion medium produce zigzag movement of colloidal particles which is known as (A) 20 to 50 (B) 50 to 100 (C) Less than 20 (D) More than 100


**Section B (02 X 05 = 10 Marks)**

- Q.1 What are association colloids? Mention the mechanism of formation of micelles with one suitable example  
Q.2 Give the working principal of cup and bob viscometer with a labelled diagram.  
Q.3 List the reasons for the origin of charge on colloidal particles. How is it important in predicting the stability of colloids?

**Section C (01 X 10 = 10 Marks)**

- Q.1 Explain non-newtonians type of flow with rheograms, mechanisms with suitable examples.  
Q.2 Discuss the optical properties of colloids.

  
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	Government College of Pharmacy Rohru	Roll No. ....
	First Sessional Examination (Practical) Group (A B)	
Semester: IV	Subject Name: <b>Physical Pharmaceutics-II</b> Subject code: 407 P	May 2022
Time = 4 hours	<b>Instructions:</b> ➤ Question paper is divided into A, B, C sections. Attempt all questions from Section A ➤ Attempt major and minor practical from Section B. ➤ Section C constitutes Viva Voce	MM = 40
		Practical's Covered: I-V
		Total Pages...01

**Section A**  
**SYNOPSIS**  
(05 x 02 = 10 Marks)


Q.1 (a)	State Bancroft's Rule. What are its applications in emulsion
(b)	Define DLVO theory
(c)	List the difference between flocculating suspension and deflocculated suspension
(d)	What are structured vehicles? What are the properties that structured vehicle should possess?
(e)	What is Brownian movement? Which formulations exhibit this movement?

**Section B**  
**EXPERIMENT (Major = 15 Marks + Minor = 10 marks)**  
(25 Marks)

- Q.1 To determine the angle of repose of a given powder.  
Q.2 To determine the effect of surfactants on the sedimentation rate of a suspension.

**Section C**  
**VIVA VOICE**

  
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	<b>Government College of Pharmacy Rohru</b>	Roll No. ....
	Second Sessional Examination (Theory)	
Semester: IV	Subject Name: <b>Physical Pharmaceutics-II</b> Subject code: 403T	Date: 30.6.2022
Time = 1 hour	<b>Instructions:</b> ➤ Question paper is divided into A, B, C sections. Attempt all questions from Section A ➤ Attempt any two questions from Section B ➤ Attempt any one question from Section C	MM = 30
		Units covered: II, IV
		Total Pages: 01

**Section A (10 x 1 = 10 Marks)**

Q.1	Stress shear rate is represented in the form of curve namely	(A) rheogram	(B) consistency curve
(a)		(C) all of the above	(D) none of the above
(b)	the slope of the plastic viscosity is termed as:	(A) yield value	(B) fluidity
		(C) mobility	(D) bingham bodies
(c)	50% phase volume ratio (volume of dispersed phase to total) shows which type of flow	(A) Newtonian	(B) plastic
		(C) pseudo plastic	(D) None
(d)	the diameter having equal surface area, diameter or volume as the particle	(A) stokes diameter	(B) projected diameter
		(C) equivalent spherical diameter	(D) surface diameter
(e)	porosity for closest packing should be	(A) 48%	(B) 72%
		(C) 26%	(D) 89 %
(f)	if angle of repose is less than 25 than the type of powder is	(A) cohesive	(B) moderately cohesive
		(C) non cohesive	(D) very cohesive
(g)	.....size of particles are detected by conductivity method	(A) 1-200 microns	(B) 0.2-200 microns
		(C) 0.5-500 microns	(D) 50-1500 microns
(h)	helium pycnometer (porous solid) is used for	(A) granule density	(B) tapped density
		(C) bulk density	(D) true density
(i)	.....is used to obtain the size distribution of an aerosol	(A) x-ray diffraction method	(B) surface method
		(C) cascade impactor	(D) elutriation
(j)	Light powders have.....	(A) high bulk volume	(B) positive bulk volume
		(C) low bulk volume	(D) negative bulk volume

**Section B (02 X 05 = 10 Marks)**

Q.1 Define shape factor. What is its importance in micromeritics?

Q.2 Explain the mechanism of thixotropy with examples

Q.3 Explain the Newtonian system of flow with examples

**Section C (01 X 10 = 10 Marks)**

Q.1 List different types of densities of powder/granules. Write the experimental method for the determination of any one of them.

Q.2 Define Viscosity. Classify different viscometers with examples. With the help of neat diagram explain the principle and working of any one single point viscometer.



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

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

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

**Semester I**

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

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

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

\* Non University Examination (NUE)

  
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## Semester II

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

\* The subject experts at college level shall conduct examinations

  
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### Semester III

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP301T	Pharmaceutical Organic Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP302T	PhysicalPharmaceuticsI –Theory	10	15	1 Hr	25	75	3 Hrs	100
BP303T	Pharmaceutical Microbiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP304T	Pharmaceutical Engineering – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP305P	Pharmaceutical Organic Chemistry II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP306P	Physical Pharmaceutics I – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP307P	Pharmaceutical Microbiology – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP308P	Pharmaceutical Engineering – Practical	5	10	4 Hr	15	35	4 Hrs	50
<b>Total</b>		<b>60</b>	<b>100</b>	<b>20</b>	<b>160</b>	<b>440</b>	<b>28Hrs</b>	<b>600</b>

  
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### Semester IV

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP401T	Pharmaceutical Organic Chemistry III– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP402T	Medicinal Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP403T	Physical Pharmaceutics II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP404T	Pharmacology I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP405T	Pharmacognosy I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP406P	Medicinal Chemistry I – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP407P	Physical Pharmaceutics II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP408P	Pharmacology I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP409P	Pharmacognosy I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
<b>Total</b>		<b>70</b>	<b>115</b>	<b>21 Hrs</b>	<b>185</b>	<b>515</b>	<b>31 Hrs</b>	<b>700</b>

  
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### Semester V

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP501T	Medicinal Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP502T	Industrial PharmacyI– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP503T	Pharmacology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP504T	Pharmacognosy II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP505T	Pharmaceutical Jurisprudence – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP506P	Industrial PharmacyI– Practical	5	10	4 Hr	15	35	4 Hrs	50
BP507P	Pharmacology II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP508P	Pharmacognosy II – Practical	5	10	4 Hr	15	35	4 Hrs	50
<b>Total</b>		<b>65</b>	<b>105</b>	<b>17 Hr</b>	<b>170</b>	<b>480</b>	<b>27 Hrs</b>	<b>650</b>

  
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### Semester VI

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP601T	Medicinal Chemistry III – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP602T	Pharmacology III – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP603T	Herbal Drug Technology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP605T	Pharmaceutical Biotechnology– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP606T	Quality Assurance– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP607P	Medicinal chemistry III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP608P	Pharmacology III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP609P	Herbal Drug Technology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
<b>Total</b>		<b>75</b>	<b>120</b>	<b>18 Hrs</b>	<b>195</b>	<b>555</b>	<b>30 Hrs</b>	<b>750</b>

  
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## Semester VII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP701T	Instrumental Methods of Analysis – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP703T	Pharmacy Practice – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP704T	Novel Drug Delivery System – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP705 P	Instrumental Methods of Analysis – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP706 PS	Practice School*	25	-	-	25	125	5 Hrs	150
<b>Total</b>		<b>70</b>	<b>70</b>	<b>8Hrs</b>	<b>140</b>	<b>460</b>	<b>21 Hrs</b>	<b>600</b>

\* The subject experts at college level shall conduct examinations

  
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### Semester VIII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP803ET	Pharmaceutical Marketing – Theory	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 Hrs	25 + 25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
BP804ET	Pharmaceutical Regulatory Science – Theory							
BP805ET	Pharmacovigilance – Theory							
BP806ET	Quality Control and Standardization of Herbals – Theory							
BP807ET	Computer Aided Drug Design – Theory							
BP808ET	Cell and Molecular Biology – Theory							
BP809ET	Cosmetic Science – Theory							
BP810ET	Experimental Pharmacology – Theory							
BP811ET	Advanced Instrumentation Techniques – Theory							
BP812PW	Project Work							

<b>Total</b>	<b>40</b>	<b>60</b>	<b>4 Hrs</b>	<b>100</b>	<b>450</b>	<b>16 Hrs</b>	<b>550</b>
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### 11.2. Internal assessment: Continuous mode

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

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

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

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

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

#### 11.2.1. Sessional Exams

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

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

#### Question paper pattern for theory Sessional examinations

##### For subjects having University examination

I. Multiple Choice Questions (MCQs) = 10 x 1 = 10

OR

Objective Type Questions (5 x 2) = 05 x 2 = 10

(Answer all the questions)

I. Long Answers (Answer 1 out of 2) = 1 x 10 = 10

II. Short Answers (Answer 2 out of 3) = 2 x 5 = 10

Total = 30 marks

  
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### For subjects having Non University Examination

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

### Question paper pattern for practical sessional examinations

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

### 12. Promotion and award of grades

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

### 13. Carry forward of marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 12, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessments shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

### 14. Improvement of internal assessment

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

### 15. Re-examination of end semester examinations

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

  
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Disstt. Shimla HP-171207

**Table-XIII: Tentative schedule of end semester examinations**

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

**Question paper pattern for end semester theory examinations**

**For 75 marks paper**

- I. Multiple Choice Questions(MCQs) = 20 x 1 = 20  
OR  
Objective Type Questions (10 x 2) = 10 x 2 = 20  
(Answer all the questions)
- II. Long Answers (Answer 2 out of 3) = 2 x 10 = 20  
III. Short Answers (Answer 7 out of 9) = 7 x 5 = 35

Total = 75 marks

**For 50 marks paper**

- I. Long Answers (Answer 2 out of 3) = 2 x 10 = 20  
II. Short Answers (Answer 6 out of 8) = 6 x 5 = 30

Total = 50 marks

**For 35 marks paper**

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

Total = 35 marks

**Question paper pattern for end semester practical examinations**

- I. Synopsis = 5  
II. Experiments = 25  
III. Viva voce = 5

Total = 35 marks

  
Director/Principal  
Govt. College of Pharmacy Rohru  
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