2.5.3 Reforms in the process and procedure in the conduct of evaluation/examination; including the automation of the examination system

- **Institute strictly follows the MUHS, Nashik directives** for conduct of examination and use of unfair means. Paper pattern, marking system and evaluation method is provided by the University of MUHS regularly.
- **Examination Procedure - Frequency of Internal Examination** is first, second term and preliminary exam. Both theory and practical internal examinations are carried as per University format, evaluation is done at college level and result is declared within 15 days of examination on notice board. An internal vigilance squad monitors conduct of examinations. After every examination record of answer book and results are maintain and retained in college for atleast one year. Final internal assessment are calculated and shared with university through online portal and hard copies also, signed by students, Head of Department and Dean and submitted to the University before the final university examination.
- **Final sent up University examination** is conducted by the university. Identification card and hall ticket with photograph of student is provided to candidate, verified from college and Dean. In institute, a Controller of examinations is appointed by University, who looks after the conduct of examinations and Central Assessment Programme according to MUHS guidelines. Examination strong room, CCTV in examination halls is installed. A panel of paper setters, invigilators and moderators is prepared by Controller of examinations in the University.
- **For practical examinations OSCE and OSPE** have been introduced for internal and final university exam since 2019. Practical/clinical examinations are made more transparent by appointing external examiners from outside states for Courses, is done as per MCI guidelines.
- **Use of skill lab** for purpose of OSPE/OSCE
- **Processes integrating IT include** online distribution of Hall tickets for university examination, use of CCTV cameras in examination Hall, use of signal blockers during examinations, online submission of results to university, etc.
- **For continuous internal assessment** students are continuously observed in theory and practical classes. Attendance of minimum 75% is compulsory to appear for the final examination. Periodical tests, assignments, seminars, periodic evaluation of practical and

projects/field work in an objective manner, in addition to written test are also carried out. Log book of these activities is maintain and checked regularly.

- **Competency based assessment system** has already started in the college since 2019 as directed by the MUHS, Nashik. The whole curriculum and teaching hours are provided which includes small group discussions, self directed learning, lectures etc.
- **Workplace based assessment** is done by direct observations in classes/ practical / OPDs/ wards. Students are asked to maintain Practical records/ Log books.
- **Self assessment** of students is encouraged by providing opportunities for students to self-assess at all stages of the learning process. Student are encouraged admitting to not understanding something, silently critiquing and reflecting on their own work, giving feedback to each other using appropriate language.

DR. ULHAS PATIL MEDICAL COLLEGE & HOSPITAL JALGAON

Dean,
Dr. Ulhas Patil Medical College
& Hospital, Jalgaon Kh.

महाराष्ट्र आरोग्य विज्ञान विद्यापीठ, नाशिक

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK

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MUHS

डॉ. संदीप सिताराम कडू

एम.बी.बी.एस.,एम.डी.(न्यायवैद्यकशास्त्र), एम.बी.ए.,

पी.जी.डी.एच.एच.एम.,पी.जी.डी.एम.एल.एस., सी.एफ.एम.जे.

परीक्षा नियंत्रक

Dr. Sandeep Sitaram Kadu

M.B.B.S.,M.D.(Forensic Medicine), M.B.A., P.G.D.H.H.M., P.G.D.M.L.S., C.F.M.J.

Controller of Examinations

Ref. No.: MUHS/X-1/UG/12014/2024 **Date: - 16/12/2024**

To,
The Dean/ Principal,
All Affiliated Medical Colleges,
Maharashtra University of Health Sciences,
Nashik-422004

SUB: INTERNAL ASSESSMENT PATTERN FOR M.B.B.S. PHASE- I BATCH ADMITED in 2024

REF: BOARD OF STUDIES PRE-CLINICAL MEETING HELD ON 09/12/2024

Respected Sir/Madam,

With reference to the captioned subject, please find the Internal Assessment pattern approved by the PRE-CLINICAL BOARD OF STUDIES (BOS) for M.B.B.S. PHASE- I batch admitted in year 2024.

You all are advised to bring this to the notice of all the conecerned students and teachers.

The said guidelines are strictly applicable to the M.B.B.S. Phase-I batch admitted in year 2024 only.

Regards

Dr. Sandeep Sitaram Kadu
(Controller of Examinations)

Theory Paper pattern

Question No.	Type of Question	Marks
1. MCQ	Recall, Comprehension and Problem solving type Minimum 5 Scenario based questions	1 M x 20 = 20
2. Long Answer Question	One – Structured (No choice)	12 M x 1 = 12
3. Short Answer Questions	Five – Reasoning type (No choice)	4 M x 5 = 20
4. Short Answer Question	**Four** - Application based questions (including topics of integrated modules) **One** question from AETCOM Module (Any 4 out of 5 to be attempted by students)	5 M x 4 = 20
5. Short Answer Questions	Four - Core topics (Any 4 out of 5 to be attempted by students)	7 M x 4 = 28

Paper-wise distribution of topics for Prelim & MUHS Annual Examination

Year: First MBBS Subject: Anatomy

Paper	Section	Topics
I	A	MCQs on all topics of the paper I
	B	Superior extremity
		General embryology
		Genetics
		Head, neck , face
		Central nervous system
		AETCOM module 1.5
		Scenario based / application questions can be on any topic of the paper I
		For long answer question and scenario based / application questions, region will not be repeated
II	A	MCQs on all topics of the paper II
	B	General Anatomy
		General histology
		Gross Anatomy of Abdomen and Pelvis
		Gross Anatomy of Inferior extremity
		Thorax
		AETCOM module 1.4
		Scenario based / application questions can be on any topic of the paper II
		For long answer question and scenario based / application questions, region will not be repeated

Internal assessment pattern for First MBBS

Theory

	first internal assessment	Second internal assessment	Prelim Examination	Continuous interna assessment	Final calculation formula	Internal Assessment Marks out of 100 as per formula in E
	A	B	C	D	E	F
Marks	100	100	200	100	$\frac{A+B+C+D}{5}$	

Practical

	first internal assessment	Second internal assessment	Prelim Examination	Continuous interna assessment	Final calculation formula	Internal Assessment Marks out of 100 as per formula in E
	A	B	C	D	E	F
Marks	100	100	100	200	$\frac{A+B+C+D}{5}$	

1. Learners must secure at least 50% of the total marks (combined in theory and practical / clinical; and minimum 40% in theory and practical separately) for internal assessment in a particular subject in order to be eligible for appearing at the final University examination of that subject.
2. The results of internal assessment should be intimated to students at least once in 3 months and as and when a student wants to see the results

Continuous internal assessment (CIA)
PHYSIOLOGY
(As per CBME 2024 Guidelines)

Theory

Sr. no	Heads of CIA	Marks	Frequency
1	Home Assignment	30	Three home assignments 10 marks each 1. Before first internal assessment 2. Between first and second internal assessment exam 3. Between Second internal assessment and prelim exam
2	Seminar/quiz	20	Each student shall present at least ONE seminar/quiz in first year.
3	Continuous class test	50	Three Continuous class test 1. 10 marks Before first internal assessment 2. 20 Marks Between first and second internal assessment exam 3. 20 marks Between Second internal assessment and prelim exam
	Total Marks	100	

Continuous internal assessment (CIA)
PHYSIOLOGY
(As per CBME 2024 Guidelines)

Practical

Sr. no	Heads of CIA	Marks	Frequency
1	Certifiable skills	100	1. 30 marks Before first internal assessment 2. 30 Marks Between first and second internal assessment exam 3. 40 marks Between Second internal assessment and prelim exam
2	Journal and logbook	20	1. 05 marks Before first internal assessment 2. 05 Marks Between first and second internal assessment exam 3. 10 marks Between Second internal assessment and prelim exam
3	SDL/SVL/SGT/Home Assignment/ charts making / model making etc	60	Institute shall decide activities to be conducted under this heading as per availability of resources and infrastructure
4	AETCOM	20	10 per competency as per AETCOM module of NMC
	Total Marks	**200**	

Practical Mark List format for Ist and IInd Internal Assessment Physiology

(As per CBME 2024 Guidelines)

	Haematology	Clinical examination/ Human Experiments	Short exercise	viva	Total Marks
Marks	20	40	20	20	100
Roll Number					
1					
2					
3					
4					

Practical Mark list for Prelim examination

(As per CBME 2024 Guidelines)

	Exercise 1				Exercise 2	Exercise 3	Exercise 4			
	C.V.S.	R.S	CNS & Special Senses	General Examination &Abdomen	Haematology	Short exercise	Human Physiology experiment	Total practical marks	Oral/Viva	Total
Marks	10	10	10	10	10	15	15	80	20	100
	A	B	C	D	E	F	G	H	I	J
Roll number										
1										
2										
3										
4										

MUHS Final Examination mark list

(As per CBME 2024 Guidelines)

	Exercise 1				Exercise 2	Exercise 3	Exercise 4			
	C.V.S.	R.S	CNS & Special Senses	General Examination &Abdomen	Haematology	Short exercise	Human Physiology experiment	Total practical marks	Oral/Viva	Total
Marks	10	10	10	10	10	15	15	80	20	100
	A	B	C	D	E	F	G	H	I	J
Seat Number										

Format for First and second Internal Assessment Examination and prelims will be same as MUHS Final examination Question papers guidelines as updated by MUHS Nashik

Phase I MBBS Biochemistry

As per CBME September 2024 Guidelines

Record of Internal Assessment

Sr No	Theory	Marks	Sr No	Practical	Marks
1.	Internal Assessment – I	100	1.	Internal Assessment - I	100
2.	Internal Assessment – II	100	2.	Internal Assessment - II	100
3.	Internal Assessment – III (Preliminary Exam Paper I & Paper II Carrying 100 marks Each)	200	3.	Internal Assessment - III	100
	Record of Continuous Assessment				
4.	Seminar	30	4.	Certifiable Skill based Competencies (11 Competencies 10 marks each)	110
5.	Home Assignments	15	5.	AETCOM	30
6.	Continuous Class Tests (At least three)	30	6.	Research[2]	30
7.	Library Assignment[1]	15	7.	Journal	20
8.	Attendance	10	8.	Attendance	10
	Total of Theory	500		Total of Practicals	500

[1]Library assignment includes 1. Visit to library, 2.organization and working of library , 3.The concept of Textbook ,reference book and e library and 4. Use of library for literature search.

[2]Research assignment includes introduction to research, types of research, data collection at Biochem lab,

Note

Assessment method for Library assignment and Research will be reflection writing.

Final IA marks for theory as well as practical will be converted to 100 by dividing 500/5.
First PCT will be after three month, Second will be three month after first PCT and preliminary exam has to be completed one month before university exam.

9.12.24
Dr. Ganesh D. Ghuge

09.12.24
Dr. M.G. Dhabe

9.12.24
Dr. M.R. Mogarekar.

Phase I MBBS Biochemistry

Pattern of Theory Paper for First PCT/Second PCT/Preliminary Exams Paper I & II/University Exam

Admission Batch 2024 -25 **(As per CBME September 2024 Guidelines) onwards**

Duration Three Hours Total 100 Marks

Q. No.	Type of Question	Number of Questions	Marks per Question	Total
1	MCQ	20 (5 MCQs must be Scenario based out of 20 MCQs)	1	20
2	Structured Long Essay Question	01(01 out 01)	12	12
3	Reasoning Questions	05	04	20
4	Short Notes (Applied aspects having 02 SN from integrated modules and 01 from AETCOM)	04 (04 out 05)	05	20
5	Short answer questions	04 (04 out 05)	07	28

Phase I MBBS Biochemistry

Pattern of Practical for First PCT/Second PCT/Preliminary Exam/University Exam

Admission Batch 2024 -25 (As per CBME September 2024 Guidelines) onwards

First PCT

Biochemistry						
	A Quantitative Experiments(On Given Case with Diagnosis)	B Quantitative Experiments/Urine (Organic)/Urine Report /Interpretation of Laboratory Report	C Special Techniques/ Lab.Instruments	D Spots	E Viva	F Total
Max marks	30	20	10	20	20	100
Seat No						
1						
2						

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Second PCT/Preliminary Exam/University Exam

There will be four practical exam stations. Students will be assessed by an examiner at each station. It is compulsory for the students to appear at each station.

Biochemistry					
	A Use of Laboratory Instuments And Appliances, / Biomedical waste management in Biochemistry	B Clinical Biochemistry (OSPE) Quality Control, Sample Collection / Use of Uristicks, Glucometer	C Metabolism and Inborn Errors of Metabolism	D Nutrition / Special Techniques in Biochemistry(Electrophoresis /Chromatography/ELISA/PCR)	E Total
Max marks	20	30	30	20	100
Seat No					
1					
2					

For example -

Station A :- 1.Identify and give the use of Instrument/appliance/glassware/

2. You have been provided with a type of biomedical waste,dispose it in appropriate waste bag.

Station B :- 1.Take the optical density of the processed glucose sample, calculate and interpret the Result. (Optical density of Standerd and formula for calculation will be provided.)

2. You have been provided with a urine sample. Analyse and interprete it with use of uristicks. (Single or multiple analytes)

Station C:- 1. A case scenario of IEM with diagnosis will be provided to student. The questions will be like identify the defect, lab method used for diagnosis etc.

Station D: - 1. Identify from given items the food substances which contains essential amino acids/EFA/MUFA/PUFA/Trans Fat etc.

2.calculate the energy content of the given food item.

Note-

1. Questions at stations described above are only sample prototypes and not exhaustive list of questions for heads.
2. As per the need questions can be added, structured and modified.

9.12.2024 9/12/24 09.12.24 Dr M.G.DHOBLE

Recommended methods for Practical Biochemistry

Sr no.	Name of Analyte	Recommended Method	Other method
1	Plasma Glucose	GOD-POD	Hexokinase
2	Serum Creatinine	Enzymatic Creatininase	Jaffe's Kinetic reaction
3	Urine creatinine	Enzymatic Creatininase	Jaffe's Kinetic reaction
4	Serum Urea	Enzymatic GLDH	
5	Serum Total Protein	Biuret method	
6	Serum Albumin	BCG method	
7	Serum Total Cholesterol	CHOD-POD	
8	Serum HDL-c	Homogeneous assay/ Direct	
9	Serum LDL-c	Homogeneous assay/ Direct	Friedwald's equation
10	Serum Triacylglycerol	GPO-POD method	
11	Serum Calcium	Arsenazo III/ O-CPC method	
12	Serum Inorganic Phosphorus	Phosphomolybdate UV method /Fiske's Subbarao colorimetric method	
13	Serum Bilirubin	Jendrassik Grof method (Caffeine benzoate) / Walters & Gerarde (DMSO) method	Bilirubin oxidase method
14	Serum ALT	IFCC (using LDH) with/without pyidoxal phosphate	
15	Serum AST	IFCC (using MDH) with/without pyidoxal phosphate	
16	Serum ALP	IFCC (using pNPP)	
17	Serum Uric acid	Enzymatic Uricase UV method / Uricase & peroxidase colorimetric method	
18	Serum Amylase	CNPG 3 method	

At the end of each practical session student should be able to perform all experiments individually using semi autoanalyser.

9.12.24 9.12.24

- **Recommended Books**

1. **Textbook of Biochemistry –D.M. Vasudevan**
2. **Textbook of Biochemistry –Rafi M.D.**
3. **Textbook of Biochemistry –Dr Dinesh Puri.**
4. **Textbook of Biochemistry –Poonam Agrawal**

- **Reference Books**

1. **Harpers Illustrated Biochemistry – P.J. Kennelly**
2. **Medical Biochemistry - N.V. Bhagwan**

09.12.24

9.12.24

The list of Early Clinical Exposure and SDL is indicative only and can be modified by addition or deletion as per need.

Early Clinical Exposure

Compe - tency No.	Activity	T/L method	Page No.	Date	Atte - mpted activity F, R, RE	Rat - ing B, M, E	Faculty Decision C, R, RE	Feed back received	Sign
BC 3.4	**Lactose Intolerance**	SGD							
BC 4.5	**Atherosclerosis**								
BC 4.7,8.5 14.19	**Obesity**								
BC 5.7	**Phenylketonuria** Inborn Errors of Metabolism	SGD							
BC 14.19	**Starvation**	SGD							
BC 10.2,10.3	**Lesch Nyhan syndrome**								
BC 14.19	**Rickets** & deficiency disorders of fat soluble vit.								
BC 14.19	**Scurvy** & other water soluble vit. deficiencies								
BC 10.3,14.19	**Gout**								
BC 5.9	**Sickle Cell**								
BC 5.9	**Thalassemia**								
BC 14.19	**Pancreatitis**								
BC 5.8,14.19	**Jaundice**								
BC 14.22	**GTT & Diabetes Mellitus**								
BC 14.19	**Dyslipidemia**								
BC 14.19	**Acidosis/Alkalosis**								
BC 13.5	**Artificial Intelligence in Clinical Biochemistry Laboratory Practice**								

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Self-Directed Learning (Seminars, Museum Study, Library Assignments, Projects, Quizzes)

Compe - tency No.	Activity	T/L method	Page No.	Date	Atte - mpted activity F, R, RE	Rat - ing B, M, E	Faculty Decision C, R, RE	Feed back received	Sign
BC 2.4	**Enzyme inhibition & clinical uses**	SGD							
BC 2.5,14.19	**Myocardial Infarction Enzyme Trends**	SGD							
BC 3.3	**Glycolysis & TCA Cycle**	SGD							
BC 3.4	**Glycogan Storage Diseases**	SGD							
BC 3.4-3.5,	**Galactose Metabolism Uronic Acid Pathway**	SGD							
BC 3.5	**Blood Glucose Regulation**								
BC 4.6	**Ecosanoids**								
BC 4.7,14.19	**Fatty Liver**								
BC 4.8	**Lipid Storage disorders**								
BC 5.1	**Lathyrism**								
BC 5.8	**Hemoglobin synthesis**								
BC 5.6	**Transamination & Deamination, Urea synthesis**								
BC 3.3,3.5, 5.7	**Inborn Errors of Metabolism** **a. Carbohydrates** **b. Amino acids** **c. Fats** **d. Other**								
BC 9.3	**Dehydration**								
BC 5.8,14.19	**Jaundice**								
BC 11.1,14.19	**Thyroid Function Test**								
BC 11.1,14.19	**Adrenal Function Test**								
BC 8.3,14.19	**Protein Energy Malnutrition**								
BC 6.1	**Glycoprotein In Health & disease**								
BC 6.1,6.2	**Extracellular Matrix**								
BC 14.19	**Nephrotic Syndrome**								

8.12.2025 9.12.24 9.12.24

Internal Assessment
ANATOMY
Applicable examination for batches admitted from September 2024 onwards

Sr. No	First Internal Assessment Exam			Second Internal Assessment Exam		
	Theory	Practical	Total Marks	Theory	Practical	Total Marks
1	100	100	200	100	100	200

Sr. No	Third Internal Assessment Exam (Preliminary Examination)			Sr. No	Remedial internal assessment examination for **Non - eligible** students		
1	Theory	Practical	Total Marks	**1**	Theory	Practical	Total Marks
	200	100	300		200	100	300

1. There will be 3 internal assessment examinations in the academic year. The structure of Preliminary examinations should be similar to the structure of University examination.

2. There will be **only one** additional examination for **absent students (due to genuine reason)** after approval by the Committee Constituted for the same. It should be taken after preliminary examination and before submission of internal assessment marks to the University.

3. First internal assessment examination will be held in three months after admission, second internal assessment examination will be held three months after first internal assessment exam and third internal assessment examination will be held one month before university exam.

4. Internal assessment marks for theory and practical will be converted to out of 100. Internal assessment marks, after Conversion, should be submitted to university.

5. The student must secure at least 50% marks for total marks (combined in theory and practical / clinical and not less than 40% marks in theory and practical separately) assigned for internal assessment in a particular subject in order to be eligible for appearing at the final university examination of that subject. Internal assessment marks will reflect as separate head of passing at the summative examination.

6. **Remedial internal assessment examination for Non - eligible students**:

A) Student who were not eligible due to less than 50% combined or less than 40% in any theory or practical, will re appear as repeater student for Prelim exam which will be conducted before Supplementary Exam.

B) This additional (Remedial) examination will be 100 marks per theory paper and practical.

C) For theory marks obtained out of 200 will be converted to out of 400 & marks obtained in yearly assessment out of 100 will be added to this marks, making it total marks out of 500.

D) For practical, marks obtained out of 100 will be converted to out of 300, marks obtained in yearly assessment out of 200 will be added to this marks, making it total marks out of 500.

E) Students who will not be eligible in this Remedial Examination will appear with regular batch as repeater student.

7. The internal assessment marks of the remedial examination alone shall be considered and converted into out of 100.

8. Conversion **Formula for calculation of marks in internal assessment examinations**

	First AI	Second AI	Third AI (Prelim)	Conti. Internal Assessment	Total	Internal assessment marks: Conversion formula (out of 100)	Eligibility to appear for final University examination	Minimum marks to be obtained to declare the final University examination result(out of 50% combined in theory and practical
Theory	100	100	200	100	500	Total Marks/ 5	40	100
Practical	100	100	100	200	500	Total Marks/ 5	40	

9. Conversion formula for calculation of marks in Remedial internal assessment examination

	Marks Obtained Remedial Exam (Prelim)	**Conversion of Marks obtained in Remedial Exam [Out of 400 Theory / Practical 300]**	**Continuous Internal Assessment (Y)**	**Int. Assess. marks conversion formula (out of 100)**	**Minimum marks to be obtained combined in theory and practical** Candidate shall obtain 50% marks in aggregate and 60:40 (minimum) or 40:60 (minimum) in examination separately in theory and practical
Theory	X (Out of 200)	2X	Y	(2X + Y) / 5	100
Practical	X (Out of 100)	3X	Y	(2X + Y) / 5	

While preparing Final Marks of Internal Assessment, the rounding-off marks shall done as illustrated in following table

Internal Assessment	Marks Final rounded marks
18.01 to 19.49	19
19.50 to 19.99	20

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES

VANI-DINDORI ROAD, NASHIK 422004

PROPOSED INTERNAL ASSESSMENT SCHEME FOR FIRST MBBS (2024-25 BATCH)

INTERNAL ASSESSMENT EXAMINATIONS:

A) THEORY:

Sr. No.	A-I) Theory **Internal Assessment (IA) Examinations**	Marks
1	First Internal Assessment Examination	100
2	Second Internal Assessment Examination	100
3	Third Internal Assessment Examination / Preliminary Examination • Paper I: 100 Marks • Paper II: 100 Marks	200
	Total	**400**
	A-II) Other Continuous Internal Assessments:	
1	Continuous Class Tests: (including Variety of Questions – LAQ, SAQ, MCQ etc)	50
2	Seminar	15
3*	Home Assignment	20
4*	Museum Study	15
	Total	**100**
	Theory Total Internal Assessment (A-I + A-II)	**500**

*Sr. No. 3 and 4 will be evaluated as per the quality of reflection, assignment in logbook after the activity.

Sr. No. 2, 3, 4 comprise of Self-Directed Learning (SDL) activities

B) PRACTICAL/ SMALL GROUP TEACHING (SGT):

Sr. No.	B-I) **Practical Internal Assessment (IA) Examinations**	Marks
1	First Internal Assessment Examination	100
2	Second Internal Assessment Examination	100
3	Third Internal Assessment Examination / Preliminary Examination	100
	Total	**300**
	B-II) Practical Other Continuous Internal Assessments	
1	Skills / Part Completion Test (Gross Anatomy)	100
2*	Attitude, Ethics and Communication (AETCOM)	20
3	Journal: - First IA: 5 Marks Second IA: 5 Marks Third IA Preliminary Examination: 10 Marks	20
4*	Simulation and Virtual Laboratory (SVL) activity / Radiology – Living Anatomy	40
5*	Research principles as applicable to the subject	20
	Total	**200**
	Practical Total Internal Assessment (B-I + B-II)	**500**

*Sr. No. 2, 4 & 5 will be evaluated as per the quality of reflection, assignment in logbook after the activity.

ELIGIBILITY CRITERIA FOR APPEARING FINAL UNIVERSITY EXAMINATION:

- Total Internal Assessment for Theory will be **500 marks**, which will be reduced to absolute marks outof 100. Similarly, Total Internal Assessment for Practical will be **500 marks**, which will be reduced to absolute marks out of **100**.
- Students must secure at least 50% of the total marks **combined** in theory and practical (i.e. Total 500/1000 or 100/200 Cumulative); and minimum 40% in theory (i.e. Total 200/500 or 40/100 Cumulative) and practical (i.e. Total 200/500 or 40/100 Cumulative) **separately** for internal assessment in a particular subject in order to be eligible for appearing at the final University examination of that subject.