



Estd. 1884

**DES BRIJLAL JINDAL COLLEGE OF
PHYSIOTHERAPY, PUNE AFFILIATED
TO MAHARASHTRA UNIVERSITY OF
HEALTH SCIENCES, NASIK**

**METHODS OF ASSESSMENT OF LEARNING OUTCOME
AND GRADUATE ATTRIBUTES**

METHODS OF ASSESSMENT OF LEARNING OUTCOME AND GRADUATE ATTRIBUTES

Assessment of the students is done as per MUHS guidelines. Exam pattern given by university is followed for this purpose-

BPTb

I BPTb

Human Anatomy

SCHEME OF UNIVERSITY EXAMINATION

THEORY 80 MARKS + I.A. – 20 MARKS		Marks 100
* The question paper will give appropriate weightage to all the topics in the syllabus.		
Section A-MCQs	Q-1 -MCQs – based on MUST KNOW area [1 x 20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 = 15] This question should include: Digestive/ Uro-genital / Reproductive system / Special senses – Eye / Ear/ Skin / Circulatory system / General Anatomy/ General Histology	30
	Q-3- answer any THREE out of FOUR [3 x 5 =15] Should be based on:Thorax / Soft parts Upper Limb / Soft part Lower Limb/ Soft parts Thorax / Spine / Neck.	
Section C -L.A.Q.	Q-4]L.A.Q(should be based on Msk anatomy)15 marks Q-5] A -15 marks OR Q-5] B -15 marks (Should be based on Neuro-Anatomy -including cranial nerves with emphasis to III to XII nerves) LAQ should give break up of 15 marks e.g.[3 +5+7]	30
Total Marks		80
PRACTICAL 80 MARKS + I.A. – 20 MARKS		Marks100
Spots	Based on: i. Musculoskeletal (7x3) = 21 marks ii. Systemic (5x3) = 15 marks iii. Neuroanatomy (3x3) = 09marks	45
Radiology		05
Living anatomy		05
Viva	i. Hard parts ii. Soft parts	20
Journal	Year work on practical's performed	05
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and prelims of 80 marks each (Theory & Practical)
TOTAL - 160 marks
2. I.A. to be calculated out of 20 marks (Theory & Practical)
3. Internal assessment as per University pattern.

Human Physiology

SCHEME OF UNIVERSITY EXAMINATION

THEORY 80 MARKS + I.A. – 20 MARKS		Marks
* The question paper will give appropriate weightage to all the topics in syllabus.		100
Section A-MCQs	Q-1 -MCQs – based on MUST KNOW area [1 x 20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 = 15] Based on: Blood/G.I. tract / Electrolyte balance / Endocrine/Uro-genital System/General physiology/Special Senses (Eye/Ear/Skin)	30
	Q-4] L.A.Q (Compulsory from Musculoskeletal) -15 marks Q-5] A - 15 marks OR Q-5] B -15 marks Based on: C.N.S./ Spinal Cord/ Electro-Neuro- Physiology /C.V.S. /R.S.	
Section C - L.A.Q.	LAQ should give break up of 15 marks – e.g. [3 +5+7]	
Total Marks		80

PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
Spots	Based on: Topic 1,2,3,6,7,8,9,11&12 (10 X 2 Marks)	20
Viva	Based on theory	20
Demonstration	On Clinical Physiology	35
	C.V.S. 10 Marks	
	R.S. 10 Marks	
	C.N.S. 15 Marks	
Journal	Cranial Nerves and Special Senses	
	Year work on practicals performed	05
Total Marks		80

INTERNAL ASSESSMENT

1. Two exams – Terminal and prelims of 80 marks each (Theory & Practical) **TOTAL - 160 marks**
2. **I.A. to be calculated out of 20 marks** (Theory & Practical)
3. Internal assessment as per University pattern.

Biochemistry

SCHEME OF UNIVERSITY EXAMINATION

THEORY ONLY		M ark s
40 marks + I.A. – 10 Marks		
[There shall be no LAQ in this paper]		
* The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section -A-Q-1	MCQs – based on MUST KNOW area [1x10]	10
Section-B- Q-2 & Q-3	SAQ-to answer any FIVE out of SIX [5x3]	15
	SAQ – to answer any THREE out of FOUR [3x5]	15
Total Marks		40

INTERNAL ASSESEMENT

1. Two exams – Terminal and prelims of 40 marks each TOTAL - 80 marks
2. I.A. to be calculated out of 10 marks (Theory only)
3. Internal assessment as per University pattern.

FUNDAMENTALS OF KINESIOLOGY & KINESIOTHERAPY

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
80 MARKS + I.A. – 20 MARKS		100
* The question paper will give appropriate weightage to all the topics in the syllabus.		
Section A-M.C.Qs.	Q-1 -MCQs – based on MUSTKNOW area [1 x 20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [3x 5 =15] Q-3- Answer any THREE out of FOUR [5x 3 =15]	30
Section C-L.A.Q.	Q-4] - 15 marks Q-5] - 15 marks OR Q-5] -15 marks Based on Mechanics & application/ Starting positions & Derived positions/ Classification of Movements/ Goniometry/ Massage LAQ should give break up of 15 marks – e.g. [3 +5+7]	30
Total Marks		80

PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
LONG CASE	Based on Massage / Goniometry / Movements (passive) <ul style="list-style-type: none"> • Cognitive – Bio-physics, Biomechanical principles, indications, contraindication • <i>Documentation of findings etc</i> - 20 Marks • <i>Psychomotor + Affective skills</i> - 15 Marks 	35
SHORT CASE	Two Short case based on <ul style="list-style-type: none"> <input type="checkbox"/> Basic evaluation (any one): Sensation / Reflex testing / B.P./ & Pulse Rate/ Chest Expansion / Respiratory Rate /Aerobic fitness for self <input type="checkbox"/> Skill performance (any one): Relaxation / Yoga posture / Starting / Derived position & Suspension Therapy (2 x 20 = 40 marks) 	40

	<input type="checkbox"/> Cognitive – 05 Marks <input type="checkbox"/> Psychomotor -15 Marks	
JOURNAL	Year work on practicals performed.	5
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination (Theory & Practical) of 80 marks each **TOTAL - 160 marks**
2. Internal Assessment to be calculated out of 20 marks.
3. Internal assessment as per University pattern.

**FUNDAMENTALS OF ELECTROTHERAPY
SCHEME OF UNIVERSITY EXAMINATION**

THEORY		Marks
80 MARKS + I.A. – 20 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		100
Section A –M.C.Qs.	Q-1 MCQs – based on MUSTKNOW area [1 x 20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 =15] Q-3- Answer any THREE out of FOUR [3 x 5 =15]	30
Section C -L.A.Q.	Q-4] L.A.Q -15 marks * Based on superficial Thermal agents Q-5] (Based on Production /Panel Diagram of high frequency current) -15 marks OR Q-5] (Based on Production / Panel Diagram of low/ Medium frequency current) -15 marks LAQ should give break up of 15 marks – e.g. [3 +5+7]	30
Total Marks		80
PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
LONG CASE	Based on Superficial thermal agent: <ul style="list-style-type: none"> • Cognitive – Medical Electronic, Physiological, Biophysical principles, Therapeutic effects, indications-contraindications - 20 Marks • Psychomotor + Affective skills - 15 Marks 	35

SHORT CASE	Two Short case on Testing of equipments: 1. Low & Medium frequency 2. High frequency/Actinotherapy (2 x 20=40 marks) • Cognitive – 05 Marks • Psychomotor -15 Marks			40
JOURNAL	Year work on practical's performed.			5
Total Marks				80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination (Theory & Practical) of 80 marks each **TOTAL - 160 marks**
2. Internal Assessment to be calculated out of 20 marks.
3. Internal assessment as per University pattern.

SCHEME OF UNIVERSITY EXAMINATIONS AT A GLANCE I.B.P.Th.

Subjects	Theory			Practical		
	University	I.A.	Total	University	I.A.	Total
Anatomy	80	20	100	80	20	100
Physiology	80	20	100	80	20	100
Biochemistry	40	10	50	-	-	-
Fundamentals of Kinesiology & Kinesiotherapy	80	20	100	80	20	100
Fundamentals of Electro Therapy	80	20	100	80	20	100
Total	360	90	450	320	80	400

II BPTth

Pathology and Microbiology

SCHEME OF UNIVERSITY EXAMINATION (THEORY ONLY)

THEORY Pathology-50 marks + Microbiology-30 marks	Mark s
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80 marks + I.A.:20 marks [There shall be no LAQ in this paper] *Emphasis to be given to topics related to Musculo Skeletal / Neurological / Cardiovascular / Respiratory conditions & Wound / Ulcers.		100
Section A-Q-1 &Q-2	MCQs – based on MUST KNOW area Q-1 based on PATHOLOGY [1 x 20] Q-2 Based on MICROBIOLOGY [1 x 10]	30
Section B-Q-3 & Q- 4	Questions based on PATHOLOGY SAQ Q-3 -to answer any FIVE out of SIX [5x3] SAQ Q-4-to answer any THREE out of FOUR [3x5]	30
Section C- Q-5	Questions based on MICROBIOLOGY SAQ – to answer any FOUR out of FIVE [4x5]	20
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination of 80 marks each
TOTAL - 160 marks
2. Internal Assessment to be calculated out of 20 marks
3. Internal assessment as per University pattern

PHARMACOLOGY

SCHEME OF UNIVERSITY EXAMINATION (THEORY ONLY)

THEORY 40 marks + I.A. 10 Marks [There shall be no LAQ in this paper] * Emphasis should be given to the drugs related to Musculo-skeletal / Neurological, Cardio-Vascular (excluding anti arrhythmic and shock) / Respiratory conditions, analgesics & anti-inflammatory conditions		Marks
		50
Section A-Q-1	MCQs – based on MUST KNOW area	10
Section-B-Q-2 & Q-3	SAQ Q-2 to answer any FIVE out of SIX [5x3]	15
	SAQ Q- 3 to answer any THREE out of FOUR[3x5]	15
Total Marks		40

INTERNAL ASSESSMENT

1. Two exams – Terminal and preliminary examination of 40 marks each
TOTAL - 80 marks
2. Internal Assessment to be calculated out of 10 marks.

3. Internal assessment as per University pattern

PSYCHIATRY (INCLUDING PSYCHOLOGY)

SCHEME OF UNIVERSITY EXAMINATION (THEORY ONLY)

THEORY		Marks
40 marks + I.A. – 10 Marks [There shall be no LAQ in this paper] * The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A-Q-1	MCQs – based on MUST KNOW area on PSYCHIATRY (1x10)	10
Section-B-Q-2	SAQ- Questions based on PSYCHOLOGY to answer any FIVE out of SIX (5x 3)	15
Section C- Q-3	SAQ – Questions based on PSYCHIATRY to answer any THREE out of FOUR (3x 5)	15
Total Marks		40

CLINICAL EXAMINATION: (College Examination only)

1. Case presentation will be taken at the end of preliminary examination
2. Case presentation :History taking : 20 marks + Communication skills : 20 marks
Total: 40 marks

INTERNAL ASSESMENT:

1. Two exams – Terminal and preliminary examination (Theory only)
of 40 marks each TOTAL - 80 marks
2. Internal Assessment to be calculated out of 10 marks (Theory only)
3. Internal assessment as per University pattern.

KINESIOLOGY

SCHEME OF UNIVERSITY EXAMINATION (THEORY ONLY)

THEORY		Marks
80 MARKS + I.A. – 20 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		100
Section A-M.C.Qs.	Q-1 - MCQs – based on MUSTKNOW area [1 x 20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 =15]	30
	Q-3- Answer any THREE out of FOUR [3 x 5 =15] Based on the topics 1(a & b)	

Section C -L.A.Q.	* Based on topics 2 & 3	30
	Q-4] L.A.Q -15 marks	
	Q-5] -15 marksOR	
	Q-5] -15 marks	
LAQ should give break up of 15 marks – e.g. [3 +5+7]		
Total Marks		80

INTERNAL ASSESSMENT – (THEORY)

1. Two exams – Terminal and preliminary examination of 80 marks each
TOTAL - 160 marks
2. Internal Assessment to be calculated out of 20 marks.
3. Internal assessment as per University pattern.

KINESIOTHERAPY
SCHEME OF UNIVERSITY EXAMINATION

THEORY 80 MARKS + I.A. – 20 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		Marks 100
Section A- M.C.Q.	Q-1 - MCQs – based on MUST KNOW area [1 x 20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 =15] Q-3- Answer any THREE out of FOUR [3 x 5 =15]	30
Section C -L.A.Q.	* Based on topics 1(c, d & e), 2, & 7 Q-4] L.A.Q - 15 marks Q-5] -15 marks OR Q-5] -15 marks LAQ should give break up of 15 marks – e.g. [3 +5+7]	30
Total Marks		80

PRACTICAL 80 MARKS + I.A. – 20 MARKS		Marks 100
LONG CASE	Muscle Strengthening / Mobility /Bronchial hygiene (On models)	35
SHORT CASE	Two Short cases on M.M.T. /Coordination/Posture/Gait (Measurable parameters only as mentioned in chapter 6-a) / Walking aids/ Functional Reeducation / Breathing Exercises 2 x 20 = 40 marks	40

JOURNAL	Documentation- Principles & applications for various Kinesiotherapeutics.	5
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination (Theory & Practical) of 80 marks each **TOTAL - 160 marks.**
2. Internal Assessment to be calculated out of 20 marks.
3. Internal assessment as per University pattern.

ELECTROTHERAPY

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
80 MARKS + I.A. – 20 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		100
Section A- M.C.Qs.	Q-1-MCQs – based on MUSTKNOW area [1 x 20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 =15] [MUST KNOW area]	30
	Q-3- Answer any THREE out of FOUR [3 x 5 =15] based on Actinotherapy (I.R./U.V.R./LASER)	
Section C-L.A.Q.	Q-4] Based on High frequency modalities -15 marks	30
	Q-5] Based on Low/Medium freq. modalities -15 marks OR Q-5] Based on Low /Medium freq. modalities -15 marks LAQ should give break up of 15 marks – e.g. [3 +5+7]	
Total Marks		80

PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
LONG CASE	Motor points /Strength Duration Curve / Faradism under pressure (On models)	35

SHORT CASES	1. Based on Low or Medium Frequency modalities / High Frequency modalities 2. Actinotherapy (I.R./U.V.R.) 2 x 20 = 40 marks (Skill of application on models & rationale for selection of modality)	40
JOURNAL	Documentation- Principles & applications for various Electrotherapy Modalities.	5
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination (Theory & Practical) of 80 marks each TOTAL - 160 marks.
2. Internal Assessment to be calculated out of 20 marks
3. Internal assessment as per University pattern

SCHEME OF UNIVERSITY EXAMINATIONS AT A GLANCE II B.P.Th.

Subjects	Theory			Practical		
	University	I.A.	Total	University	I.A.	Total
Pathology & Microbiology	50 + 30	20	100	---	---	---
Pharmacology	40	10	50	---	---	---
Psychiatry (including Psychology)	40	10	50	---	---	---
Kinesiology	80	20	100	---	---	---
Kinesiotherapy	80	20	100	80	20	100
Electrotherapy	80	20	100	80	20	100
Total	400	100	500	160	40	200

III BPTth

SURGERY-I

SCHEME OF UNIVERSITY EXAMINATION

THEORY	Mark
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40 MARKS + I.A. – 10 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		s
		50
Section A –M.C.Qs.	Q-1 MCQs – based on MUST KNOW area [1 x 10]	10
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 = 15] * Based on topics – GENERAL SURGERY & PLASTIC SURGERY	15
	Q-3 - Answer any FIVE out of SIX [5 x 3 = 15] * Based on topics – CARDIOVASCULAR & THORACIC SURGERY	15
Total Marks		40

Clinical Case Presentation (COLLEGE EXAMINATION)	Marks
Conducted at the end of Preliminary examination - Based on Case presentation, Examination and Viva	20

INTERNAL ASSESSMENT:

1. **One examination of Total 40 marks** (Theory only)
2. Internal Assessment to be calculated out of 10 marks
3. **Internal assessment as per University pattern.**

SURGERY-II

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
40 MARKS + I.A. – 10 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A .MCQs	Q-1 - MCQs – based on MUSTKNOW area [1 x 10]	10
Section B- S.A.Q	Q-2 - Answer any FIVE out of SIX [5 x 3 = 15]	15
	Q-3 - Answer any FIVE out of SIX [5 x 3 = 15]	15
Total Marks		40
Clinical Case Presentation (COLLEGE EXAMINATION)		Marks

Conducted at the end of Preliminary examination - Based on Case presentation, Examination and Viva	20
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INTERNAL ASSESSMENT

1. **One examination of Total 40 marks** (Theory only)
2. Internal Assessment to be calculated out of 10marks
3. **Internal assessment as per University pattern.**

MEDICINE-I

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
40 MARKS + I.A. – 10 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A .MCQs	Q-1 -MCQs – based on MUST KNOW area [1 x 10]	10
Section B- S.A.Q	Q-2 - Answer any FIVE out of SIX [5 x 3 = 15] * Based on topics – GENERAL MEDICINE, RHEUMATOLOGY & GERONTOLOGY	15
Section B- S.A.Q	Q-3 - Answer any FIVE out of SIX [5 x 3 = 15] * Based on topics – CARDIOVASCULAR & RESPIRATORY MEDICINE	15
Total Marks		40

Clinical Examination (COLLEGE EXAMINATION)	Marks
Conducted at the end of Preliminary examination 1. General Medicine, Rheumatology & Gerontology -10 Marks 2. Cardio-Vascular & Respiratory Medicine -10 Marks	20

INTERNAL ASSESSMENT:

1. **One examination of Total 40 marks** (Theory only)
2. Internal Assessment to be calculated out of 10marks
3. **Internal assessment as per University pattern.**

MEDICINE-II

SCHEME OF UNIVERSITY EXAMINATION

THEORY	Mark s
40 MARKS + I.A. – 10 MARKS	

** The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A .MCQs	Q-1 -MCQs – based on MUST KNOW area [1 x 10]	10
Section B- S.A.Q	Q-2 - Answer any FIVE out of SIX [5 x 3 = 15] * Based on topics – PAEDIATRICS	15
Section B- S.A.Q	Q-3 - Answer any FIVE out of SIX [5 x 3 = 15] * Based on topics – NEUROLOGY	15
Total Marks		40

Clinical Examination (COLLEGE EXAMINATION)	Marks
Conducted at the end of Preliminary examination	
1. Neurology -10 Marks	20
2. Paediatrics -10 Marks	

INTERNAL ASSESSMENT:

1. One examination of Total 40 marks (Theory only)
2. Internal Assessment to be calculated out of 10marks
3. Internal assessment as per University pattern.

COMMUNITY HEALTH & SOCIOLOGY

SCHEME OF UNIVERSITY EXAMINATION (THEORY ONLY)

THEORY		Marks
80 MARKS + I.A. – 20 MARKS		
* The question paper will give appropriate weightage to all the topics in the syllabus.		100
Section A- Q-1 & Q-2	MCQs – based on MUST KNOW area Q-1 based on COMMUNITY MEDICINE [1x20] Q-2 based on SOCIOLOGY [1 x10]	30
Section B-Q-3 & Q- 4	Questions based on COMMUNITY MEDICINE SAQ Q-3 -to answer any FIVE out of SIX [5x3=15] SAQ Q-4-to answer any THREE out of FOUR [3x5=15]	30
Section C- Q-5	Questions based on SOCIOLOGY SAQ – to answer any FOUR out of FIVE [4 x 5=20]	20
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination of 80 marks each
TOTAL - 160 marks
2. Internal Assessment to be calculated out of 20 marks.
3. Internal assessment as per University pattern.

GYNAECOLOGY & OBSTETRICS (COLLEGE EXAMINATION)

SCHEME OF COLLEGE EXAMINATION (THEORY ONLY)

THEORY ONLY 50 marks [There shall be no LAQ in this paper] *Emphasis to be given to the Urogenital dysfunction / Obstetrical conditions / age related Gynaecological problems		Mark s
		50
Section -A-Q-1	MCQs – based on MUST KNOW area [20X1]	20
Section-B-Q-2	SAQ-to answer any FIVE out of SIX [5x3]	15
Section-C-Q-3	SAQ-to answer any THREE out of FOUR [3x5]	15
Total Marks		50
Passing in the exam is Mandatory Grades: A+ = 75% & above, A = 66 to 74.5%, B + = 55 to 65 %, B = 50 to 54.5%, C = less than 50%.		

DERMATOLOGY

(COLLEGE EXAMINATION)

SCHEME OF COLLEGE EXAMINATION (THEORY ONLY)

THEORY 25 marks [There shall be no LAQ in this paper] * The question paper will give appropriate weightage to all the topics in the syllabus.		Marks
		25
Section A- Q-1	MCQs – based on MUST KNOW area [10X1]	10
Section-B- Q-2	SAQ - Answer any FIVE out of SIX [5x3]	15
Total Marks		25
Passing in the exam is Mandatory Grades: A+ = 75% & above, A = 66 to 74.5%, B + = 55 to 65 %, B = 50 to 54.5%, C = less than 50%.		

FUNCTIONAL DIAGNOSIS & PHYSIOTHERAPEUTIC SKILLS

DOCUMENTATION:

A	Documentation & Interpretation of following investigations: i. Electro diagnosis : <u>2 each</u> a) S.D.C. b) Faradic Galvanic Test c) E.M.G. & N.C. Studies ii. Cardio Vascular & Pulmonary: (1 each) – A.B.G., P.F.T., E.C.G., X-ray Chest, Exercise Tolerance Test. iii. Neurological Scales (1 each) – Modified Ashworth, Berg’s Balance, D.G.I., Glasgow iv. Coma, Barthel Index, F.I.M.
B	Case presentation with Functional diagnosis : i. Total 12 cases ii. Three cases each in – a) Musculoskeletal b) Neurological c) Cardiovascular & Respiratory (<u>Including General Medical & Surgical Cases</u>) d) General & Community Health (<u>Including Fitness & Health, Women & Child Health, Occupation Health</u>)

To maintain the Record/ Journal of the term work & to get each assignment duly signed by respective Head of the Dept.

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
80 MARKS + I.A. – 20 MARKS		
* The question paper will give appropriate weightage to all the topics in the syllabus.		100
Section A- M.C.Qs.	Q-1 -MCQs – based on MUST KNOW area [20 x 1]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 = 15] Q-3- Answer any THREE out of FOUR [3 x 5 =15]	30
Section C- L.A.Q.	* Based on topics- Simulated case on all of the sections on ICF pattern (Section II,III & IV) Q-4] L.A.Q - 15 marks Q-5] - 15 marks OR Q-5] - 15 marks LAQ should give break up of 15 marks – e.g. [3 +5+7]	30
Total Marks		80

PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
LONG CASE	<p>[Time maximum 30 minutes for students for evaluation]</p> <p>1. Psychomotor & affective:</p> <ul style="list-style-type: none"> • Skill of History taking [05 marks] • Skill of clinical examination [15 marks] • Skill of objective diagnostic procedure [10 marks] <p>2. Cognitive :</p> <ul style="list-style-type: none"> • Ability to justify bases for functional diagnosis by I.C.F. [15 marks] <p>[To be evaluated in cognitive, psychomotor and affective domains.]</p>	45
SHORT CASE	<p>Two Short cases on</p> <p>1. Mobilization Technique: Kaltenborn, Maitland, M.E.T. or Neural Mobilisation (On Models)[10marks]</p> <p>2. Neuro Therapeutic Skills: N.D.T. / P.N.F. / Rood's / Brunnstrom (On Models) [10 marks]</p> <p style="text-align: center;">OR</p> <p>Electro Diagnosis: S.D. Curve / Faradic Galvanic Test (On Patient) [10 marks]</p> <p style="text-align: center;">OR</p> <p>Exercise Tolerance Test: Six Minutes Walk Test (On Model) [10 marks]</p>	20
SPOTS	<p>5 spots - (5 x2 Marks= 10 Marks) 3minutes for each spot</p> <p>a) X ray (on section 2/3/4)</p> <p>b) Pulmonary Function Test</p> <p>c) Blood gas analysis</p> <p>d) E.C.G.</p> <p>e) E.M.G. / N.C. studies</p>	10
JOURNAL	Documentations- Assessment, Evaluation, Diagnosis with I.C.F.	5
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination (Theory & Practical) of 80 marks each **TOTAL - 160 marks**
2. Internal Assessment to be calculated out of 20 marks
3. In Practicals of Terminal & Preliminary examinations Spots will be of 15 marks instead of 10 marks (3 marks X 5), No marks will be allotted for the journal in Terminal & Preliminary examinations

4. Internal assessment as per University pattern

SCHEME OF EXAMINATIONS AT A GLANCE –

III B.P.Th.

SUBJECTS	UNIVERSITY EXAMINATIONS						COLLEGE LEVEL EXAMS (Theory only)
	Theory			Clinical / Practical			
	University	I.A.	Total	University	I.A.	Total	
Surgery-I (General Surgery + Cardio vascular & Thoracic Surgery + Plastic / Reconstructive Surgery)	40	10	50	---	---	---	---
Surgery-II (Orthopaedics)	40	10	50	---	---	---	---
Medicine-I (Cardiovascular Respiratory Medicine + General Medicine + Gerontology)	40	10	50	---	---	---	---
Medicine-II (Neurology & Paediatrics)	40	10	50	---	---	---	---
Community Health & Sociology	80	20	100	---	---	---	---
Functional Diagnosis and Physiotherapeutic Skills	80	20	100	80	20	100	---
Gynaecology & Obstetrics	---	---	---	---	---	---	50
Dermatology	---	---	---	---	---	---	25
Total	320	80	400	80	20	100	75

IV BPTth

PROFESSIONAL PRACTICE AND ETHICS(COLLEGE EXAMINATION)

SCHEME OF COLLEGE EXAMINATION

THEORY ONLY	Marks
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[There shall be no LAQ in this paper]		
* The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A-Q-1	MCQs – based on MUST KNOW area [20 X1]	20
	SAQ-to answer any FIVE out of SIX [5 x 3]	15
Section-B-Q-2 & Q3	SAQ – to answer any THREE out of FOUR [3 x 5]	15
Total Marks		50
Passing in the examination is Mandatory		
Grades: A+ = 75% & above, A = 66 to 74.5%, B + = 55 to 65 %, B = 50 to 54.5%, C = less than 50%.		

ADMINISTRATION, MANAGEMENT & MARKETING (COLLEGE EXAMINATION)

SCHEME OF COLLEGE EXAMINATION

THEORY 50 MARKS		Mar ks
[There shall be no LAQ in this paper]		
* The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A-Q-1	MCQs – based on MUST KNOW area [20 x1]	20
	SAQ-to answer any FIVE out of SIX [5 x 3]	15
Section-B-Q-2 & Q3	SAQ – to answer any THREE out of FOUR [3 x 5]	15
Total Marks		50
Passing in the exam is Mandatory		
Grades: A+ = 75% & above, A = 66 to 74.5%, B + = 55 to 65 %, B = 50 to 54.5%, C = less than 50%.		

MUSCULOSKELETAL PHYSIOTHERAPY

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Mark s
80 MARKS + I.A. – 20 MARKS		
* The question paper will give appropriate weightage to all the topics in the syllabus.		100
Section A –M.C.Qs.	Q-1 -MCQs – based on MUST KNOW area [20 x 1=20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 = 15]	30
	Q-3- Answer any THREE out of FOUR [3 x 5 = 15]	

Section C -L.A.Q.	* Based on topics- structured question based on ICF model with emphasis to goal setting and treatment intervention Q-4] L.A.Q. -15 marks Q-5] -15 marks OR Q-5] -15 marks LAQ should give break up of 15 marks – e.g. [3 +5+7]	30
Total Marks		80

PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
LONG CASE	a. Subjective and Physical Examination -10 marks b. Evaluation and Physical therapy diagnosis (ICF) – 10 marks c. Plan of care - Goal setting – 10 marks d. Demonstration of any one important test and treatment intervention on patient –15 marks [Student will be evaluated in cognitive, psychomotor and affective domains.]	45
SHORT CASE	One Short case on: Demonstrations of two physiotherapy intervention skills for effective patient management 2 x 10 marks	20
SPOTS	5 spots - (5 x2 Marks= 10 Marks) 3 minutes for each spot X– ray of extremities and spine, Orthoses, Protheses, Metal Implant	10
JOURNAL	Documentations- Assessment, Evaluation, Diagnosis, Prognosis, Intervention of Case along with ICF	5
Total Marks		80

INTERNAL ASSESSMENT

- Two examinations – Terminal and preliminary examination (Theory & Practical) of 80 marks each TOTAL - 160 marks**
- Internal Assessment to be calculated out of 20 marks.**
- In Practicals of Terminal & Preliminary examinations, Spots will be of 15 marks instead of 10 marks (3 marks X 5), No marks will be allotted for the journal in Terminal & Preliminary examinations**
- Internal assessment (Theory) as per University pattern.**

NEUROPHYSIOTHERAPY
SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
80 MARKS + I.A. – 20 MARKS		
* The question paper will give appropriate weightage to all the topics in the syllabus.		100
Section A –M.C.Qs.	Q-1 - MCQs – based on MUSTKNOW area [20x 1=20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 =15] Q-3- Answer any THREE out of FOUR [3 x 5 =15]	30
Section C -L.A.Q.	* Based on topics- structured question based on ICF model with emphasis to goal setting and treatment intervention Q-4] L.A.Q Compulsory U.M.N. condition (adult / paediatric)) - 15 marks Q-5] L.M.N. condition (adult / paediatric) - 15 marks OR Q-5] L.M.N. condition (adult / paediatric) - 15 marks L.A.Q. should give break up of 15 marks e.g. [3 +5+7]	30
Total Marks		80

PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
LONG CASE	a. Subjective and Physical Examination -10 marks b. Evaluation and Physical therapy diagnosis (ICF) - 10 marks c. Plan of care - Goal setting – 10 marks d. Demonstration of any one important test and treatment intervention on patient – 15 marks [To be evaluated in cognitive, psychomotor and affective domains.]	45
SHORT CASE	One Short case on: Demonstrations of two physiotherapy intervention skills for effective patient management 2 x 10 marks	20
SPOTS	5 spots - (5 x2 Marks= 10 Marks) 3 minutes for each spot E.M.G./N.C. Studies / Orthoses/ Protheses & Neurological assessment, Scales	10
JOURNAL	Documentations- Assessment, Evaluation, Diagnosis, Prognosis, Intervention of Case along with I.C.F.	5
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination (Theory & Practical) of 80 marks each TOTAL - 160 marks
2. Internal Assessment to be calculated out of 20 marks.
3. In Practicals of Terminal & Preliminary examinations, Spots will be of 15 marks instead of 10 marks (3 marks X 5), No marks will be allotted for the journal in Terminal & Preliminary examinations
4. Internal assessment (Theory) as per University pattern

CARDIO-VASCULAR & RESPIRATORY PHYSIOTHERAPY

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
80 MARKS + I.A. – 20 MARKS		100
* The question paper will give appropriate weightage to all the topics in the syllabus.		
Section A –M.C.Qs.	Q-1 -MCQs – based on MUST KNOW area [20x1= 20]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5 x 3 = 15]	30
	Q-3- answer any THREE out of FOUR [3 x 5 = 15]	
Section C-L.A.Q.	* Based on topics - ICF model.	30
	Q-4] L.A.Q - 15 marks	
	Q-5] (RESPIRATORY SYSTEM) - 15 marks	
	OR Q-5] (CARDIO VASCULAR SYSTEM) - 15 marks	
	L.A.Q. should give break up of 15 marks – e.g. [3 +5+7]	
Total Marks		80

PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
LONG CASE	a. Subjective and Physical Examination -10 marks	45
	b. Evaluation and Physical therapy diagnosis (ICF) – 10 marks	
	c. Plan of care - Goal setting – 10 marks	
	d. Demonstration of any one important test and treatment intervention on patient – 15 marks [Student will be evaluated in cognitive, psychomotor and affective domains.]	
SHORT CASE	One Short case on: Demonstrations of two physiotherapy intervention skills for effective patient management 2 x 10 marks	20
SPOTS	(5 spots x 2 Marks = 10 Marks) Chest/Cardiac X-ray, ABG, PFT, ECG, Adjunct/devices	10

JOURNAL	Documentations- Assessment, Evaluation, Diagnosis, Prognosis, Intervention of Case along with ICF	5
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination (Theory & Practical) of 80 marks each **TOTAL - 160 marks**
2. Internal Assessment to be calculated out of 20 marks.
3. In Practicals of Terminal & Preliminary examinations, Spots will be of 15 marks instead of 10 marks (3 marks X 5). No marks will be allotted for the journal in Terminal & Preliminary examinations.
4. Internal assessment (Theory) as per University pattern.

COMMUNITY PHYSIOTHERAPY
SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
80 MARKS + I.A. – 20 MARKS		100
* The question paper will give appropriate weightage to all the topics in the syllabus.		
Section A-M.C.Qs.	Q-1 -MCQs – based on MUST KNOW area [1 x 20] [Rehab - 4, Women’s Health- 4, Health Promotion - 4, Geriatrics - 4, Industrial - 4.]	20
Section B- S.A.Q.	Q-2 - Answer any FIVE out of SIX [5x 3 = 15] Q-3- Answer any THREE out of FOUR [3 x 5 =15]	30
Section C-L.A.Q.	* Based on topics - Health Promotion / Women’s Health /Geriatrics /Industrial Health. Q-4] L.A.Q - 15 marks Q-5] - 15 marks OR Q-5] - 15 marks LAQ should give break up of 15 marks – e.g. [3 +5+7]	30
Total Marks		80

PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
LONG CASE	Rehabilitation/ Women’s Health / Geriatric/ Industrial Health / Health Promotion.	50
PROJECT SYNOPSIS	(Synopsis can be on any topic to be done during Internship project/ monogram (Musculoskeletal, Neurosciences, Cardio Respiratory or Community). [Introduction, Aims & Objectives, Methods & Methodology &	25

	Review of Literature Expected]	
JOURNAL	1. 1 cases each of Rehabilitation, Health Promotion, Industrial Health, Women's Health & Geriatrics (Total 5 cases only) 2. Documentation of visits (Minimum One) to either Industry, Geriatric Home, Community assessment	5
Total Marks		80

INTERNAL ASSESSMENT

1. Two exams – Terminal and preliminary examination (Theory & Practical) of 80 marks each **TOTAL - 160 marks**
2. Internal Assessment (Theory) as per University pattern.
3. A. Practical examination for Terminal examination to be taken with 2 Long Cases of 40 marks each.
 B. Practical examination for Preliminary examination to be taken with 1 Long Case of 50 marks & Project Synopsis for 30 marks.
4. Internal Assessment to be calculated out of 20 marks.

**PRINCIPLES OF BIOENGINEERING
(COLLEGE EXAMINATION)
SCHEME OF COLLEGE EXAMINATION**

THEORY ONLY: 50 MARKS		Marks
[There shall be no LAQ in this paper]		
* The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A-Q-1	MCQs – based on MUST KNOW area [20 x 1]	20
Section-B-Q-2 & Q3	SAQ-to answer any FIVE out of SIX [5 x 3]	15
	SAQ – to answer any THREE out of FOUR [3 x 5]	15
Total Marks		50
Passing in the exam is Mandatory		
Grades: A+ = 75% & above, A = 66 to 74.5%, B + = 55 to 65 %, B = 50 to 54.5%, C = less than 50%.		

RESEARCH METHODOLOGY AND BIostatISTICS (COLLEGE EXAMINATION)

SCHEME OF COLLEGE EXAMINATION

THEORY : 50 Marks [There shall be no LAQ in this paper] * The question paper will give appropriate weightage to all the topics in the syllabus.		Marks
		50
Section A-Q-1	MCQs – based on MUSTKNOW area [20 x1]	20
Section-B-Q-2 & Q3	SAQ-to answer any FIVE out of SIX [5 x3]	15
	SAQ – to answer any THREE out of FOUR [3 x5]	15
Total Marks		50
Passing in the examination is Mandatory Grades: A+ = 75% & above, A = 66 to 74.5%, B + = 55 to 65 %, B = 50 to 54.5%, C = less than 50%.		

MPT

Scheme of Examination

Sr. No.	Passing Head	Total Marks	Minimum Marks required for passing
1.	Theory	400	200
2.	Practical including viva voice	400	200
	Total Marks	800 Marks	400 Marks

- i) A Candidate must pass in two heads i.e. Theory and Practical {Clinical including Oral viva}, separately at the same time.
- ii) In Theory examination candidate must obtain 50% marks in theory. As far as individual paper is concerned a candidate must obtain minimum 40 Marks in each Theory paper but a candidate should obtain at least 50% marks to pass theory exam.
- iii) In Practical, Candidate must obtain 50% of Total Marks to pass practical examination.

Theory Examination:-

- i. There shall be four Theory Papers of 100 Marks each.
- ii. Each paper shall be of 3 hours duration.
- iii. All questions are compulsory.

Q. No.	Nature of Question	Distribution of Marks	Total Marks
1.	Long Answer Questions	1×30	30 Marks
2.	Long Answer Questions	1×30	30 Marks
3.	Solve any four out of five SAQ	4×10	40 Marks

- In Applied Physiotherapeutics in Paper I and II for all specialties, the topics of research methodology,

ethics management and teaching technology will be preferably asked as Short Answer Questions.

Paper wise distribution of topics is as given below:-

Exam Paper No.

Topic/Nomenclature

Paper I Applied Physiotherapeutics – (Part I)

Paper II Applied Physiotherapeutics – (Part II)

Paper III Advances in Specialty (Part I)

Paper IV Advances in Specialty (Part II)

Practical /Clinical Examination: -

It should be aimed for assessing competence of skills of techniques and procedures as well as testing students ability to make relevant and valid observations, interpretations and inferences using laboratory or experimental work relating to his/her subject.

A) PRACTICAL SCHEME: -

Sr. No.	Heading	Marks
1.	<p><u>Specialty Case 1: -</u> <u>Neurophysiotherapy</u> - Adult Neuro-pathological Condition <u>Musculoskeletal Physiotherapy</u> - degenerative/inflammatory/infective/congenital/non-traumatic condition <u>Cardiovascular Respiratory Physiotherapy</u> - Cardiovascular condition <u>Community Physiotherapy</u>– Any case of Physically disabled because of congenital / acquired disorder</p>	150
2.	<p><u>Specialty Case 2: -</u> <u>Neurophysiotherapy</u> - Paediatric Neuro-pathological Condition <u>Musculoskeletal Physiotherapy</u> - Traumatic condition <u>Cardiovascular Respiratory Physiotherapy</u> - Respiratory condition <u>Community Physiotherapy</u> – Any case based on Geriatric / Women's health / Child care/Industrial set up (<i>preferably evaluated & examined at the site / in the community / at the patient's home or home for the Aged</i>)</p>	150

4.	<p>Spots: - (5 spots 5 Marks each).</p> <p><u>Neurophysiotherapy</u> – e.g. electro diagnosis, orthosis, X-Ray, CT scans MRI, etc.</p> <p><u>Musculoskeletal Physiotherapy</u> – e.g. electro diagnosis, orthosis, prosthesis, X-Ray (spine and extremities) etc.</p> <p><u>Cardiovascular Respiratory Physiotherapy</u> – e.g. pulmonary function test, electro cardiogram, X-Ray, Arterial Blood Gas Analysis, CT scan (Thorax) , MRI, (Thorax), etc.</p> <p><u>Community Physiotherapy</u> - e.g. electro diagnosis, orthosis prosthesis, pulmonary function test, electro cardiogram, X-Ray, Arterial Blood Gas Analysis, CT scan, MRI, etc.</p>	25
5.	Viva Voice:- Based on Dissertation	50
6.	Micro Teaching (Teaching of any topic or section in specialty subject)	25
	Total	400

B) Number Of Candidate: - The maximum number of candidate to be examined in Clinical / Practical and oral shall not exceed 8 per batch of two days examination.

C) Criteria for examiner: - All the Post Graduate Examiners shall be recognized Post Graduate Teachers holding recognized Post Graduate qualifications in the subject concerned with minimum 5 yrs P.G. Teaching experience.

D) Number of Examiners for Practical: -There shall be four examiners: Two Internal and two external.
 Internal 1: - Same centre (Convenor) Internal 2: - Out side the college within same region. External 1: - Within MUHS from other region.
 External 2: - Outside state, if not available then, outside MUHS jurisdiction within state.

Following methods are used to assess the learning outcomes and graduate attributes.

1. Ongoing evaluation: The institute conducts regular internal evaluation (IA)
 The students' outcome is assessed through the theory and practical IA performance.
2. University Exams: Each year one final exam is conducted by university .The pattern is uniform for all students in Maharashtra. The final course outcome is assessed through the performance in the exams
3. Case presentations: The UG and PG program has clinical postings, which involves supervised evaluation and patient care. PGs and interns independently take assessment and plan the treatment, the outcome of the patient care is assessed through the case presentation. It's mandatory for the student to fulfill a minimum no of cases in each year which is prescribed by MUHS. The students' performance is measured through an evaluation format and scorings.PG students are evaluated by a checklist given by university.
4. Seminar /EBP presentation: Regular class seminars and presentations are taken for UG and PG students. PG students are given topics for seminars. Their performance is assessed thru feedback form and scoring by the faculty.

5. Assignments: All UG and PG students are given assignments on related topic in classroom as well as clinics. These assignments are given in oral, on TEAMS, in written format or thru google forms as per the requirement of topic.
6. Log Books: PG students are supposed to maintain a Log Book which keeps a record of their yearly performance. This is as per prescribed format of MUHS.
7. Practical Journals: UG students are supposed to maintain a Journal in which they write the practical procedures. This journal carries certain marks for university and internal exams.
8. OSPE / OSCE: Method of examination is used to assess the skill of students in the internal exams.
9. Dissertation- PG students have to carry out a project and submit dissertation to university thru college in order to be eligible to appear for final exam. It carries 50 marks in their final exam.
10. Projects- UG students and interns have to do projects. Synopsis is to be submitted final year. Submission and viva related to it carries marks in their final exam of community PT. Data collection and project writing is to be done in internship. This is mandatory for getting internship completion certificate from university.

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