

## **METHOD OF ASSESSMENT FOR UG (B.P.TH)**

**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
<b>Total</b>	<b>360</b>	<b>90</b>	<b>450</b>	<b>320</b>	<b>80</b>	<b>400</b>

Source: MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards



## HUMAN ANATOMY

### INTERNAL ASSESSMENT: SCHEME OF UNIVERSITY EXAMINATION

THEORY 80 MARKS + I.A. – 20 MARKS		Marks
* The question paper will give appropriate weightage to all the topics in the 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]  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 Musculoskeletal anatomy) - 15 marks	30
	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]	
	<b>Total Marks</b>	<b>80</b>

Source MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards



<b>PRACTICAL</b> 80 MARKS + I.A. – 20 MARKS		<b>Marks</b>
		<b>100</b>
<b>Spots</b>	Based on: i. Musculoskeletal (7x3) = 21 marks ii. Systemic (5x3) = 15 marks iii. Neuroanatomy (3x3) = 09 marks	<b>45</b>
<b>Radiology</b>		<b>05</b>
<b>Living anatomy</b>		<b>05</b>
<b>Viva</b>	i. Hard parts ii. Soft parts	<b>20</b>
<b>Journal</b>	Year work on practical performed	<b>05</b>
<b>Total Marks</b>		<b>80</b>

#### 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.



Source MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards



## HUMAN PHYSIOLOGY

### SCHEME OF UNIVERSITY EXAMINATION

<b>THEORY</b> 80 MARKS + I.A. – 20 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		<b>Marks</b>
		<b>100</b>
<b>Section A-MCQs</b>	Q-1 -MCQs - based on MUST KNOW area [ 1 x 20]	<b>20</b>
<b>Section B- S.A.Q.</b>	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)	<b>30</b>
	Q-3- Answer any THREE out of FOUR [3 x 5 =15]  Based on: Cardio-vascular system / Respiratory system / Exercise Physiology/ Nerve	
<b>Section C -L.A.Q.</b>	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.  LAQ should give break up of 15 marks – e.g. [ 3 +5+7]	<b>30</b>
<b>Total Marks</b>		<b>80</b>

Source MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards

PRACTICAL 80 MARKS + I.A. – 20 MARKS		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 C.V.S. 10 Marks R.S. 10 Marks C.N.S. Cranial Nerves and Special Senses 15 Marks	35
Journal	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

<b>THEORY ONLY</b> 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.		Marks
		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.



Source: MUHS - Syllabus for undergraduates B.P.Th., applicable from 2012-13 onwards

## FUNDAMENTALS OF KINESIOLOGY & KINESIOTHERAPY

### 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 [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

Scheme of examination is amended.

Latest question paper depicting the change in scheme of examination.

(Section A)

- 5 out of 6 Short answer questions (3 Marks each )
- 5 out of 6 Short answer questions (7 Marks each )

(Section B)

- Any one out of 2 Long answer question (15 Marks)

(Section C)

Source MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards



V.S.P.M's COLLEGE OF PHYSIOTHERAPY, NAGPUR  
B.P.Th I year .SUBJECT : FUNDAMENTALS OF KINESIOTHERAPY &  
KINESIOLOGY

TERMINAL EXAMINATION (SUMMER 2021)

DATE :22/6/2021

Time : 3 hrs

MARKS : 80

Note : Draw Suitable Diagrams Wherever Necessary

Section A (SAQ)

Q.1 Short answer questions (Any 5 out of 6)

(3 × 5 = 15)

1. Stereognosis.
2. Shoulder Wheel.
3. Define 1 RM and 10 RM.
4. Write the factors on which stability of body depends.
5. Newton's Law of Inertia
6. Define Work, Energy and Power

Q. 2 Short answer questions (Any 5 out of 6)

(7 × 5 = 35)

1. Discuss effects and uses of Free Exercises.
2. Write in details about Axial suspension with reference to Hip abduction and adduction with a neat labelled diagram.
3. Define Lever. Explain types of lever giving suitable examples with respect to human body.
4. Principles of Hydrotherapy and its effects and uses.
5. Any three derived positions in standing with its effects and uses.
6. Discuss testing of superficial sensations in details with reference to equipment used, procedure and response.

Section B (LAQ) Any one out of two

Q.3.A Write the classification of Passive movements. Describe in details principles of relaxed passive movements. Add a note on effects and uses (4+7+4=15)

Q.3.B Describe the principles and uses of Goniometry. Write about the different types of Goniometers. (5+4+6=15)

Section C (LAQ) ) Any one out of two

Q4.A.What is Relaxation? Enumerate different methods of relaxation. Describe in details any one method of General Relaxation. (2+5+8=15)

Q.4.B Describe Fundamental Hanging position with its muscle work and effects and uses.

(5+7+3=15)



- Any one out of 2 Long answer question (15 Marks)

PRACTICAL 80 MARKS + I.A. – 20 MARKS	
LONG CASE	Based on Massage / Goniometry / Movements (passive) <ul style="list-style-type: none"> <li>• Cognitive – Bio-physics, Biomechanical principles, indications, contraindication</li> <li>• <i>Documentation of findings etc</i> - 20 Marks</li> <li>• <i>Psychomotor + Affective skills</i> - 15 Marks</li> </ul>
SHORT CASE	Two Short case based on <ul style="list-style-type: none"> <li>• Basic evaluation (any one): Sensation / Reflex testing / B.P./ &amp; Pulse Rate/ Chest Expansion / Respiratory Rate / Aerobic fitness for self</li> <li>• Skill performance (any one): Relaxation / Yoga posture / Starting / Derived position &amp; Suspension Therapy (2 x 20 = 40 marks)</li> <li>• <i>Cognitive</i> – 05 Marks</li> <li>• <i>Psychomotor</i> -15 Marks</li> </ul>
JOURNAL	Year work on practical performed.
Total Marks	

#### 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 20marks.  
Internal assessment as per University pattern.



Source MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards





## FUNDAMENTALS OF ELECTROTHERAPY

### SCHEME OF UNIVERSITY EXAMINATION

THEORY 80 MARKS + L.A. – 20 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		Marks
Section A – M.C.Qs.		100
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.	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

Scheme of examination is amended.

Latest question paper depicting the change in scheme of examination.

(Section A)

5 5 out of 6 Short answer questions (3 Marks each )

6 5 out of 6 Short answer questions (7 Marks each )

Source MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards





(Section B)

7 Any one out of 2 Long answer question (15 Marks)

(Section C)

8 Any one out of 2 Long answer question (15 Marks)

PRACTICAL 80 MARKS + I.A. – 20 MARKS		Marks
		100
LONG CASE	Based on Superficial thermal agent: <ul style="list-style-type: none"><li>• Cognitive – Medical Electronic, Physiological, Biophysical principles, Therapeutic effects, indications-contraindications - 20 Marks</li><li>• Psychomotor + Affective skills - 15 Marks</li></ul>	35
SHORT CASE	Two Short case on Testing of equipments: 1. Low & Medium frequency 2. High frequency/Actinotherapy (2 x 20=40 marks) <ul style="list-style-type: none"><li>• Cognitive – 05 Marks</li><li>• Psychomotor -15 Marks</li></ul>	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 20marks.
3. Internal assessment as per University pattern.

Source MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards





**Subject: FUNDAMENTAL OF ELECTRO THERAPY**

**Date:** .... / .... / .....

**Maximum Marks=80**

**NOTE:- SCRATCHING, WHITENER, OR OVERWRITING IN MARKS IS NOT ALLOWED**

[illegible]

❖ **Short cases-** Skill of application on models & rationale for selection of modality.

**Certified that the total marks entered against each seat No. are totaled by us and found correct.**  
External Examiner Internal Examiner

**Name & Signature of External Examiner**

**Name & Signature of Internal Examiner**

**FORM NO. 2**

## 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



## PATHOLOGY & MICROBIOLOGY

### SCHEME OF UNIVERSITY EXAMINATION (THEORY ONLY)

<b>THEORY</b>		<b>Marks</b>
Pathology-50 marks + Microbiology-30 marks 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
<b>Section A-Q-1 &amp; Q-2</b>	MCQs – based on <b>MUST KNOW</b> area Q-1 based on <b>PATHOLOGY</b> [1 x 20] Q-2 Based on <b>MICROBIOLOGY</b> [1 x 10]	30
<b>Section B-Q-3 &amp; Q- 4</b>	Questions based on <b>PATHOLOGY</b> SAQ Q-3 -to answer any FIVE out of SIX [5x3] SAQ Q-4-to answer any THREE out of FOUR [3x5]	30
<b>Section C- Q-5</b>	Questions based on <b>MICROBIOLOGY</b> SAQ – to answer any FOUR out of FIVE [4x5]	20
<b>Total Marks</b>		<b>80</b>

#### 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)

<b>THEORY</b> 40 marks + I.A. 10 Marks [There shall be no LAQ in this paper]		Marks
* 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		50
Section A-Q-1	MCQs – based on <b>MUST KNOW</b> 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
<b>Total Marks</b>		<b>40</b>

### 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 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.		Marks
Section A-Q-1	MCQs – based on <b>MUST KNOW</b> area on <b>PSYCHIATRY</b> (1x10)	10
Section-B-Q-2	SAQ- Questions based on <b>PSYCHOLOGY</b> to answer any FIVE out of SIX (5x 3)	15
Section C- Q-3	SAQ – Questions based on <b>PSYCHIATRY</b> 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 80 MARKS + I.A. – 20 MARKS			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 marks	
	OR		
	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.



## Latest question paper depicting the scheme of examination

### Section A :

1. 5 out of 6 Short answer question (3 marks each)
2. 5 out of 6 Short answer question (7 marks each)

### Section B :

3. Any 1 out of 2 Long answer question (15 marks)

### Section C :

4. Any 1 out of 2 Long answer question (15 marks)





# 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]	30
	Q-3- Answer any THREE out of FOUR [3 x 5 =15]	
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

### Latest question paper depicting the scheme of examination

#### Section A :

1. 5 out of 6 Short answer question (3 marks each)
2. 5 out of 6 Short answer question (7 marks each)

#### Section B :

3. Any 1 out of 2 Long answer question (15 marks)

#### Section C :

4. Any 1 out of 2 Long answer question (15 marks)



**Second BPTH (2012) Examination, Summer (Phase - III All Other  
Remaining UG/PG Courses) - 2020  
KINESIOTHERAPY**

Total Duration : Section A + B = 3 Hours

Total Marks : 80

**SECTION - A & SECTION - B**

- Instructions :**
- 1) Use **blue/black** ball point pen only.
  - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) **All questions are compulsory.**
  - 4) The number to the **right** indicates **full marks**.
  - 5) Draw diagrams **wherever necessary**.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) Use a common answer book for all sections.

**SECTION - "A" SAQ (50 Marks)**

1. Short answer question (any five out of six) : [5 × 3 = 15]
- a) Define 1 RM and 10 RM.
  - b) Standard Cane.
  - c) Note on trick movement.
  - d) Write any three contraindication for cervical Traction.
  - e) Delorme's method of PRE.
  - f) Define Step Length and stride Length.



51214

2. Short answer question (any five out of six):

[5 × 7 = 35]

- a) Principles & Techniques of Frenkels exercise for Lower limb.
- b) Deviations from Ideal Standing posture in lateral view.
- c) Write an note on Indication and Contraindications of Hydrotherapy in detail.
- d) Indications to mobility exercises and write the note on mobility exercise for knee joint.
- e) Coughing and huffing.
- f) Write an note on Mat exercises on Supine to Sitting.

### SECTION - "B" LAQ (30 Marks)

3. Long answer questions (any one out of two):

[1 × 15 = 15]

- a) i) Define strength.
- ii) Enumerate principles of strengthening exercises.
- iii) Strengthening programme for knee flexors from grade 0 to grade 5  
*Hamstrings* (2 + 8 + 5)
- b) Describe principles and determinants of stretching. Discuss hold-relax technique. (5 + 5 + 5)

4. Long answer questions (any one out of two):

[1 × 15 = 15]

- a) i) Define postural drainage.
- ii) Indications and contraindications of postural drainage.
- iii) Postural drainage for right lower lobe (2 + 8 + 5)
- b) i) Write an note on type of Breathing Exercise.
- ii) Effects & uses of breathing exercises.
- iii) Note on ACBT (5 + 5 + 5)



<b>PRACTICAL</b> 80 MARKS + I.A. – 20 MARKS		<b>Marks</b>
		<b>100</b>
<b>LONG CASE</b>	Muscle Strengthening / Mobility /Bronchial hygiene (On models)	<b>35</b>
<b>SHORT CASE</b>	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	<b>40</b>
<b>JOURNAL</b>	Documentation- Principles & applications for various Kinesiotherapeutics.	<b>5</b>
<b>Total Marks</b>		<b>80</b>

**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.







Date.....

Maximum Marks=20

**NOTE:- SCRATCHING, WHITENER, OR OVERWRITING IN MARKS IS NOT ALLOWED**

[illegible]

Certified that the total marks entered against each seat No. are totaled by us and found correct.

Name &amp; Signature of External Examiner

Name &amp; Signature of Internal Examiner



## ELECTROTHERAPY

### SCHEME OF UNIVERSITY EXAMINATION

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

**Latest question paper depicting the scheme of examination**

## Section A :

- 5 out of 6 Short answer question (3marks each)
- 5 out of 6 Short answer question (7marks each)

## Section B :

3. Any 1 out of 2 Long answer question (15 marks)

## Section C :

4. Any 1 out of 2 Long answer question (15 marks)



Source: MUHS - Syllabus for undergraduates B.P.Th., applicable from 2012-13 onwards

<b>PRACTICAL</b> 80 MARKS + I.A. – 20 MARKS		<b>Marks</b>
		<b>100</b>
<b>LONG CASE</b>	Motor points /Strength Duration Curve / Faradism under pressure (On models)	<b>35</b>
<b>SHORT CASES</b>	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)	<b>40</b>
<b>JOURNAL</b>	Documentation- Principles & applications for various Electrotherapy Modalities.	<b>5</b>
<b>Total Marks</b>		<b>80</b>

#### 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 EXAMINATIONS AT A GLANCE –III B.P.Th.

SUBJECTS	<u>UNIVERSITY EXAMINATIONS</u>						<u>COLLEGE LEVEL EXAMS</u> (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



Source: MUHS - Syllabus for undergraduates B.P.Th., applicable from 2012-13 onwards

# SURGERY-I

(General Surgery, Cardiovascular & Thoracic Surgery  
& Plastic/Reconstructive Surgery)

## SCHEME OF UNIVERSITY EXAMINATION

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

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

### INTERNAL ASSESSMENT:

1. One examination of Total 40 marks (Theory only)
2. Internal Assessment to be calculated out of 10 marks

Source: MUHS – Syllabus for undergraduates B.P.Th., applicable from 2012-13 onwards.



**3. Internal assessment as per University pattern.**

Source MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards



## SURGERY-II

### (ORTHOPAEDICS)

#### SCHEME OF UNIVERSITY EXAMINATION

<b>THEORY</b> 40 MARKS + I.A. – 10 MARKS		<b>Marks</b>
* The question paper will give appropriate weightage to all the topics in the syllabus.		50
<b>Section A .MCQs</b>	Q-1 - MCQs – based on MUSTKNOW area [ 1 x 10]	10
<b>Section B- S.A.Q</b>	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
<b>Total Marks</b>		40

<b>Clinical Case Presentation (COLLEGE EXAMINATION)</b>	<b>Marks</b>
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.

Source: MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards



## MEDICINE-I

(Cardiovascular Respiratory Medicine, General Medicine & Gerontology)

### SCHEME OF UNIVERSITY EXAMINATION

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

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

#### 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.

Source: MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards



## MEDICINE-II

(Neurology & Paediatrics)

### SCHEME OF UNIVERSITY EXAMINATION

THEORY 40 MARKS + L.A. – 10 MARKS		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 10 marks
3. Internal assessment as per University pattern.



# COMMUNITY HEALTH & SOCIOLOGY

## SCHEME OF UNIVERSITY EXAMINATION (THEORY ONLY)

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- Q-1 & Q-2	MCQs – based on <b>MUST KNOW</b> area	30
	based on <b>COMMUNITY MEDICINE</b> [1x20] based on <b>SOCIOLOGY</b> [1 x10]	
Section B-Q-3 & Q- 4	Questions based on <b>COMMUNITY MEDICINE</b>	30
	SAQ Q-3 -to answer any FIVE out of SIX [5x3=15] SAQ Q-4-to answer any THREE out of FOUR [3x5=15]	
Section C- Q-5	Questions based on <b>SOCIOLOGY</b>	20
	SAQ – to answer any FOUR out of FIVE [4 x 5=20]	
<b>Total Marks</b>		<b>80</b>

### 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.

Source: MUHS - Syllabus for undergraduates B.P.Th., applicable from 2012-13 onwards



# GYNAECOLOGY & OBSTETRICS

(COLLEGE EXAMINATION)

## SCHEME OF COLLEGE EXAMINATION (THEORY ONLY)

THEORY ONLY			Marks
50 marks [There shall be no LAQ in this paper]			
*Emphasis to be given to the Urogenital dysfunction / Obstetrical conditions / age related Gynaecological problems			50
Section -A-Q-1	MCQs – based on <b>MUST KNOW</b> 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		Marks
25 marks [There shall be no LAQ in this paper] * The question paper will give appropriate weightage to all the topics in the syllabus.		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%.		



Source: MUHS - Syllabus for undergraduates B.P.Th., applicable from 2012-13 onwards

# FUNCTIONAL DIAGNOSIS & PHYSIOTHERAPEUTIC SKILLS

## SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
80 MARKS + L.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]	30
	Q-3- Answer any THREE out of FOUR [3 x 5 =15]	
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



## Latest question paper depicting the scheme of examination

### Section A :

1. 5 out of 6 Short answer question (3 marks each)
2. 5 out of 6 Short answer question (7 marks each)

### Section B :

3. Any 1 out of 2 Long answer question (15 marks)

### Section C :

4. Any 1 out of 2 Long answer question (15 marks)



**VSPM's COLLEGE OF PHYSIOTHERAPY**  
**FUNCTIONAL DIAGNOSIS AND PHYSIOTHERAPEUTIC SKILLS**  
**THIRD B.P.TH- PRELIMINARY EXAMINATION- THEORY EXAMINATION= 31-12-2021**  
**Total : 80 MARKS**

**Section A:**

- a. Any 5 out of 6 (3marks each)=3X5=15 Marks
1. Deep tendon reflexes.
  2. Impairments in lordotic posture
  3. Define coordination. Enlist any two test for lower limb coordination.
  4. Grades of dyspnea
  5. Mention any three indications of six minute walk test
  6. Importance of passive movement in assessment.
- b. Any 5 out of 6 (draw suitable diagrams) (7marks each)=7X5=35 Marks
1. Explain any three balance test in standing in detail.
  2. Explain any seven complications of bed rest in detail.
  3. Explain scapulohumeral rhythm in detail.
  4. Define motor learning and explain any one theory of motor learning
  5. Explain knee joint assessment for ligament injury (any three test) in detail.
  6. Explain high step gait, trendelenberg's gait and antalgic gait in detail.

**SECTION B (ANSWER ANY ONE)**

1. A 55 years old female underwent **modified radical mastectomy** 7 days back. Patient is diabetic. Give a brief history for the surgery ,Post surgical Day 7 Evaluation .Give differential diagnosis and Mention ICF (body structure and body function, activity limitation and participation restriction) in detail.(5+5+5=15 marks)

OR

A 60 year old male chronic smoker since last 25 years came to pulmonary OPD with complains of chronic cough with expectoration on most days for 3 consecutive months for 3 successive year& diagnosed as Chronic bronchitis. His PFT revealed FEV< 60% of predicted values Give: Physical examination, ICF, Goals & Treatment. (5+5+5=15 marks)

**SECTION C (ANSWER ANY ONE)**

A 52 year old factory worker complaining of difficulty in walking, stair climbing and both hand fine activity of holding objects while work . There is weakness in both upper and lower limb, and trunkal instability. He shows inability to control walking in a straight line and shows frequent falls. He also shows slurred speech and waddling gait. Make A Problem List , Mention ICF (body structure and body function, activity limitation and participation restriction) in detail.(6+9=15 marks)

OR

A 61 years engineering professor has acute onset of knee pain since 12 days. He is also complaining of difficulty in walking and stairs climbing up and down. Pain aggravates with prolonged standing and relives with lying and sitting. He has to drive bike for 12 km daily to go to college so he anxious about the condition. Mention ICF (body structure and body function, activity limitation and participation restriction) in detail.(7+5+3=15 marks)



PRACTICAL 80 MARKS + L.A. = 20 MARKS		Marks
		100
LONG CASE	<p>[Time maximum 30 minutes for students for evaluation]</p> <p>1. Psychomotor &amp; affective:</p> <ul style="list-style-type: none"> <li>• Skill of History taking [05 marks]</li> <li>• Skill of clinical examination [15 marks]</li> <li>• Skill of objective diagnostic procedure [10 marks]</li> </ul> <p>2. Cognitive :</p> <ul style="list-style-type: none"> <li>• Ability to justify bases for functional diagnosis by I.C.F. [15 marks]</li> </ul> <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>OR</p> <p>Electro Diagnosis: S.D. Curve / Faradic Galvanic Test (On Patient) [10 marks]</p> <p>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



MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK  
PRACTICAL EXAMINATION MARKSHEET

**College & Centre:** V.S.P.M's College Of Physiotherapy, Nagpur

**Subject: FUNCTIONAL DIAGNOSIS AND PHYSIOTHERAPEUTIC SKILLS**

**Maximum Marks=80**

**NOTE:- SCRATCHING, WHITENER, OR OVERWRITING IN MARKS IS NOT ALLOWED**

❖ **Long Case-** 1) Time maximum 30 minutes for students for evaluation.  
2) To be evaluated in cognitive, psychomotor and affective domains.

Certified that the total marks entered against each Seat No. are totaled by us and found correct.

**Internal Examiner**





#### 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 – IV B.P.Th.

Subjects	<u>UNIVERSITY EXAMINATIONS</u>						<u>COLLEGE LEVEL EXAMS</u> (Theory only)
	Theory			Practical			
	University	I.A.	Total	University	I.A.	Total	
Musculoskeletal Physiotherapy	80	20	100	80	20	100	---
Neuro Physiotherapy	80	20	100	80	20	100	---
Cardio-Vascular & Respiratory Physiotherapy	80	20	100	80	20	100	---
Community Physiotherapy	80	20	100	80	20	100	---
Professional Practice & Ethics	---	---	---	---	---	---	50
Administration, Management & Marketing	---	---	---	---	---	---	50
Principles of Bioengineering	---	---	---	---	---	---	50
Research Methodology & Biostatistics	---	---	---	---	---	---	50
Total	320	80	400	320	80	400	200

Source: MUHS - Syllabus for undergraduates B.P.Th., applicable from 2012-13 onwards



# MUSCULOSKELETAL PHYSIOTHERAPY

## SCHEME OF UNIVERSITY EXAMINATION

THEORY		Mark
80 MARKS + L.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 - M.C.Qs – based on MUSK & OW 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
<b>Total Marks</b>		<b>80</b>

Scheme of examination is amended.

Latest question paper depicting the change in scheme of examination.

(Section A)

1.5 out of 6 Short answer questions (3 Marks each )

2.5 out of 6 Short answer questions (7 Marks each )

(Section B)

Source : MUHS - Syllabus for undergraduates B.P.Th. , applicable from 2012-13 onwards



V.S.P.M's COLLEGE OF PHYSIOTHERAPY, NAGPUR  
PRELIMINARY EXAMINATION (SUMMER-2020)  
IV B.P.Th.

Subject: Musculoskeletal Physiotherapy

Time: 3 Hrs

Date: 06/06/2020

Max. Marks: 80

- Note:* 1. Draw diagrams wherever necessary  
2. Write question numbers properly

Q. 1) SAQ-Attempt any FIVE out of six

[5X3=15]

- a) Physiotherapy management for flat foot
- b) Swan neck deformity
- c) Thomas test
- d) Physiotherapy management for tennis elbow
- e) Mention splint for foot drop
- f) Clinical features of Osteomyelitis

Q. 2) SAQ-Attempt any FIVE out of six

[5X7=35]

- a) Myositis ossificans
- b) Diagnostic criteria for Rheumatoid arthritis
- c) Clinical feature and physiotherapy management for ankylosing spondylitis
- d) Role of physiotherapy in peripheral nerve injury
- e) Discuss stages of Reflex sympathetic dystrophy and PT management for stage I
- f) Goals and PT management for scoliosis

Q. 3) LAQ- Attempt any ONE out of TWO

[1x15=15]

- a) A 25 year young male cricketer, sprained his right ankle before 3 days. He is worried for much swelling, restricted movements and pain which is 7/10 on VAS. He is appearing for university examination after a week. Orthopedic surgeon is not suspecting any fracture and allows him for physiotherapy. Discuss functional diagnosis and physiotherapy management
- b) A 5 year old boy diagnosed with right side supra condylar fracture by orthopedic surgeon. He was treated conservatively. After 1 month surgeon advised him for physiotherapy because he has pain and restricted range of motion. Discuss functional diagnosis and physiotherapy management.

Q. 4) LAQ- Attempt any ONE out of TWO

[1x15=15]

- a) A 55 year old female residing on second floor is complaining of moderate swelling around right knee joint. He is also complains of moderate intensity pain while walking, sit in climbing and cross leg sitting. Discuss ICF and PT management
- b) 46 year old male has complained of gradual onset of right shoulder pain without any history of trauma. He has difficulty in combining hair and difficulty to take on wall to on back pocket from 2 months. He is known case of diabetes mellitus from 10 year. Discuss functional diagnosis and physiotherapy management.



3. Any one out of 2 Long answer question (15 Marks)

**(Section C)**

4. Any one out of 2 Long answer question (15 Marks)

<b>PRACTICAL</b>		<b>Marks</b>
<b>80 MARKS + EA 20 MARKS</b>		<b>100</b>
<b>LONG CASE</b>	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.]	<b>45</b>
<b>SHORT CASE</b>	One Short case on: Demonstrations of two physiotherapy intervention skills for effective patient management 2 x 10 marks	<b>20</b>
<b>SPOTS</b>	5 spots - (5 x2 Marks= 10 Marks) 3 minutes for each spot X-ray of extremities and spine, Orthoses, Prostheses, Metal Implant	<b>10</b>
<b>JOURNAL</b>	Documentations- Assessment, Evaluation, Diagnosis, Prognosis, Intervention of Case along with ICI	<b>5</b>
<b>Total Marks</b>		<b>80</b>

**INTERNAL ASSESSMENT:**

1. Two examinations – 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 Practical 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.







# NEUROPHYSIOTHERAPY

## SCHEME OF UNIVERSITY EXAMINATION

THEORY 80 MARKS + I.A. – 20 MARKS			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]		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 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

Scheme of examination is amended.

Latest question paper depicting the change in scheme of examination.

(Section A)

1. 5 out of 6 Short answer questions (3 Marks each )
2. 5 out of 6 Short answer questions (7 Marks each )

Source: MUHS - Syllabus for undergraduates B.P.Th., applicable from 2012-13 onwards



**(Section B)**

3. Any one out of 2 Long answer question (15 Marks)

**(Section C)**

4. Any one out of 2 Long answer question (15 Marks)



**Fourth B.P.TH. (2012) Examination, Phase - II Summer - 2022**  
**NEURO PHYSIOTHERAPY**

Total Duration : 3 Hours

Total Marks : 80

- Instructions :**
- 1) Use **blue/black** ball point pen only.
  - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) All questions are **compulsory**.
  - 4) The number to the **right** indicates **full** marks.
  - 5) Draw diagrams **wherever** necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) Use a common answer book for all sections.

**SECTION - "A"SAQ (50 Marks)**

1. Short answer question (**any five** out of six) : [5 × 3 = 15]
  - a) Define Extrinsic & Intrinsic Feedback.
  - b) Explain the Sunderland's classification of nerve injuries.
  - c) Explain Autonomic Dysreflexia.
  - d) State any 3 principles of the Rood's Approach.
  - e) What is Apraxia? Enumerate its types.
  - f) Enumerate 3 clinical features of Multiple Sclerosis.
  
2. Short answer question (**any five** out of six) : [5 × 7 = 35]
  - a) Describe in detail physiotherapy management for a Flaccid Upper extremity in a stroke patient.
  - b) Describe Spastic Hemiplegic Gait. Describe physiotherapy management for the same.
  - c) Describe the Physiotherapy management of the Carpal Tunnel Syndrome.
  - d) Describe the physiotherapy management of Bradykinesia and rigidity in Parkinson's disease.
  - e) Write a note on vestibular rehabilitation.
  - f) Describe Various Foot orthoses used for Cerebral Palsy children.



**SECTION - "B" LAQ (30 Marks)**

3. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) A 42 year old photographer had RTA resulting in fracture of T9-T10 vertebrae with complete Spinal cord injury. A decompression-stabilization surgery was done 1 month back. He can sit without support, and can transfer himself in wheel chair. He has a spastic bladder. His financial condition is good, his studio is in his own home on first floor.
- i) Describe his impairments with clinical reasoning [7]
  - ii) Describe the PT management for expected type and mode of Ambulation. [8]
- b) A 68 year old lady complains of tremors in fingers, fall while turning, slowness of movement since last 2 years, recently she also has freezing episode while speaking and walking. She is a retired teacher and continues taking classes for underprivileged slum children. She is been on medication for the same. She doesn't have any other co-morbidity.
- i) Explain the short term and long term goals. [4]
  - ii) Explain fall prevention strategies. [4]
  - iii) Write the PT management in details. [7]
4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) A 2 year old hypotonic Cerebral Palsy girl comes for rehabilitation. She can roll on either side and come to sitting with moderate support. Her parents are both uneducated and from low socio economic strata.
- i) Describe the impairments with clinical reasoning. [7]
  - ii) Describe short and long term Physiotherapy management with emphasis on trunk control and ambulation. [8]
- b) A 21 year old man had a fall from tree on out stretched had, causing traction injury 3 weeks back. Since then he has difficulty in, making a fist, straightening his elbow and move his thumb. He has loss of sensation on medial side of forearm and arm. On examination the muscle power is less than grade 2.
- i) Identify which part of brachial plexus is involved. [2]
  - ii) Explain the short term and long term goals. [6]
  - iii) Describe the PT management with emphasis on orthosis prescription. [7]



PRACTICAL 80 MARKS + I.A. – 20 MARKS		Marks
		100
LONG CASE	a. Subjective and Physical Examination – 10 marks b. Evaluation and Physical therapy diagnosis (I.C.F.) – 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/ Prostheses & 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 Practical 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

(INCLUDING CRITICAL CARE)

## SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
80 MARKS + L.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 [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 - JCF 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

Scheme of examination is amended.

Latest question paper depicting the change in scheme of examination.

(Section A)

- 5 out of 6 Short answer questions (3 Marks each )
- 5 out of 6 Short answer questions (7 Marks each )

(Section B)

- Any one out of 2 Long answer question (15 Marks)

(Section C)

- Any one out of 2 Long answer question (15 Marks)





PRACTICAL 80 MARKS + I.A. 20 MARKS		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 x 2 Marks = 10 Marks) Chest Cardiac X-ray, ABC, PFI, 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 Practical 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 + L.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

Scheme of examination is amended.

Latest question paper depicting the change in scheme of examination.

(Section A)

- 5 out of 6 Short answer questions (3 Marks each )
- 5 out of 6 Short answer questions (7 Marks each )

(Section B)

- Any one out of 2 Long answer question (15 Marks)

(Section C)

- Any one out of 2 Long answer question (15 Marks)



PRACTICAL 80 MARKS + LA = 20 MARKS		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 & Review of Literature Expected]	25
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.



## **METHOD OF ASSESSMENT FOR PG (M.P.TH)**

**Examination Pattern: All papers to be set and evaluated by speciality teachers. Topics from Applied Physiotherapeutics Paper I & II can be subject to application as per speciality**

Theory Examination

There shall be four theory papers of 100 marks each

Each paper shall be of three hours duration

Paper I - Applied Physiotherapeutic Paper I (Applied biomechanics& clinical kinesiology, exercise physiology and nutrition, Electrophysiology and Electrodiagnosis)

Paper II - Applied Physiotherapeutic Paper II (Physiotherapy Diagnosis and Clinical Decision Making, Evidence Based practice and Advanced Physiotherapeutic)

Paper III – Advances in Physiotherapy (Speciality)- I

Paper IV- Advances in Physiotherapy (Speciality)- II

Question paper pattern.

Q. No.	Nature of question	Distribution of marks	Total marks
1.	Long Answer question answer any one	1 ×30	30 marks
2.	Long Answer question answer any one	1×30	30 marks
3.	Solve any four out of five SAQ	4×10	40 marks

**Practical 400 marks**

Long Case I – Speciality – Paper I – 150 marks	
Long Case I – Speciality – Paper II – 150 marks	
Short Case – Allied – 50 marks	
Dissertation & Research Viva-	30 marks
Presentation of Teaching Skills -	20 marks

