



MAHARAJ VINAYAK GLOBAL
UNIVERSITY

QUESTION BANK

BPT 4^{1/2} Year Integrated Degree Programme

(W.E.F. 2018 – 2019)

**Faculty of Physiotherapy
Jaipur Physiotherapy College
Maharaj Vinayak Global University, Jaipur**

University Campus: Dhand, Tehsil- Amer, Jaipur-Delhi National Highway, NH-11C,

Jaipur- 303101

MAHARAJ VINAYAK GLOBAL UNIVERSITY

DHAND, AMER, JAIPUR-DELHI Highway NO. 11C, JAIPUR-302028

BACHELOR OF PHYSIOTHERAPY (B.P.T.)

ANNUAL SCHEME OF EXAMINATION

First B.P.T Examination (Mark Distribution)

Sr. No.	Subject	Theory	I.A.	Total	Practical + Oral	I.A.	Total	Grand Total
1	Anatomy	100	30	130	50	20	70	200
2	Physiology	100	30	130	50	20	70	200
3	Biochemistry	70	30	100	-	-	-	100
4	Psychology and Psychiatry	35	15	50	--	--	--	50
5	Bio – mechanics and Kinesiology	100	30	130	50	20	70	200
6	Sociology	35	15	50	--	--	--	50
TOTAL								800

Second B.P.T Examination (Mark Distribution)

Sr. No.	Subject	Theory	I.A.	Total	Practical + Oral	I.A.	Total	Grand Total
1	Pathology and Microbiology	70	30	100	--	--	--	100
2	Pharmacology	70	30	100	--	--	--	100
3	Exercise Therapy – I & II	100	30	130	50	20	70	200
4	Electro Therapy – I & II	100	30	130	50	20	70	200
5	Bio – statistics & Research Methodology	70	30	100	--	--	---	100
6	Advance Therapeutic	35	15	50	35	15	50	100
TOTA								800

Third B.P.T Examination (Mark Distribution)

Sr. No.	Subject	Theory	I.A.	Total	Practical Oral	I.A.	Total	Grand Total
1	Orthopedics	100	30	130	50	20	70	200
2	Surgery including Obstetrics & Gynecology	100	30	130	50	20	70	200
3	Medicine, Pediatrics & resp, Cardio	100	30	130	50	20	70	200
4	Neurology and Neurosurgery	100	30	130	50	20	70	200
5	Functional Assessment & outcome measures	70	30	100	--	--	--	100
6	Community Medicine	70	30	100	--	--	--	100
TOTAL								1000

Fourth B.P.T Examination (Mark Distribution)

Sr. No.	Subject	Theory	I.A.	Total	Practical + Oral	I.A.	Total	Grand Total
1	P.T.in Orthopedic Conditions	100	30	130	50	20	70	200
2	P.T. in Surgical /Obs & Gynae conditions	100	30	130	50	20	70	200
3	P.T. in Medicine, resp,cardio and pediatric Conditions	100	30	130	50	20	70	200
4	P.T. in Neurological & Neurosurgical condition	100	30	130	50	20	70	200
5	C.B.R	100	30	130	50	20	70	200
TOTAL								1000

SEMESTER SCHEME OF EXAMINATION

1st Semester

COURSE CODE	Course Title	Teaching Scheme	Examination Scheme					
			Credits	Theory		Practical/Viva		Total
				Internal	External	Internal	External	
PT-101	Human Anatomy - I	4	30	70	-	--	100	
PT-101(P)	Human Anatomy – I (P)	2	--	--	15	35	50	
PT-102	Human Physiology -I	4	30	70	--	--	100	
PT-102(P)	Human Physiology –I (P)	2	--	--	15	35	50	
PT-103	Biochemistry	2	15	35	-	--	50	
PT-103(P)	Biochemistry (P)	1	--	--	15	35	50	
PT-104	Exercise Therapy -I	5	30	70	-	--	100	
PT-104(P)	Exercise Therapy –I (P)	2	-	--	15	35	50	
PT-105	Psychology	2	15	35	--	--	50	
PT-106	English & Communication Skills - I	2	15	35	--	--	50	
PT-106(P)	English & Communication Skills – I (P)	1	--	--	15	35	50	
	Total	27	135	315	75	175	700	

2nd Semester

COURSE CODE	Course Title	Teaching Scheme	Examination Scheme				
		Credits	Theory		Practical/Viva		Total
			Internal	External	Internal	External	
PT-201	Human Anatomy-II	4	30	70	-	-	100
PT-201(P)	Human Anatomy-II (P)	2	-	-	15	35	50
PT-202	Human Physiology-II	4	30	70	-	-	100
PT-202(P)	Human Physiology-II (P)	2	-	-	15	35	50
PT-203	Fundamental of Biomechanics	4	30	70	-	-	100
PT-203 (P)	Fundamental of Biomechanics (P)	2	-	-	15	35	50
PT-204	Fundamental of Biomedical Physics	4	30	70	-	-	100
PT-205	Sociology	2	15	35	-	-	50
PT-206	E.V.S.	4	30	70	-	-	100
	Total	28	165	385	45	105	700

3rd Semester

COURSE CODE	Course Title	Teaching Scheme	Examination Scheme				Total	
			Credits	Theory		Practical/Viva		
				Internal	External	Internal		External
PT-301	Electrotherapy - I	5	30	70	--	--	100	
PT-301(P)	Electrotherapy – I (P)	4	--	--	30	70	100	
PT-302	Kinesiology	4	30	70	--	--	100	
PT-302(P)	Kinesiology (P)	2	--	--	15	35	50	
PT-303	Pathology	2	15	35	--	--	50	
PT-304	Pharmacology- I	2	15	35	--	--	50	
PT-305	Exercise Therapy -II	4	30	70	--	--	100	
PT-305(P)	Exercise Therapy –II (P)	4	--	--	30	70	100	
PT-306(P)	First Aid & Emergency Care (P)	2	--	--	15	35	50	
	Total	29	120	280	90	210	700	

4th Semester

COURSE CODE	Course Title	Teaching Scheme	Examination Scheme				
		Credits	Theory		Practical/Viva		Total
			Internal	External	Internal	External	
PT-401	General Medicine	4	30	70	--	--	100
PT-401(P)	General Medicine (P)	2	--	--	15	35	50
PT-402	General Surgery	4	30	70	--	--	100
PT-402(P)	General Surgery (P)	2	--	--	15	35	50
PT-403	Microbiology	2	15	35	--	--	50
PT-404	Pharmacology- II	2	15	35	--	--	50
PT-405	Biostatistics	2	15	35	--	--	50
PT-406	Community Medicine	2	15	35	--	--	50
PT-407	Computer Applications	2	15	35	--	--	50
PT-407(P)	Computer Applications (P)	2	--	--	15	35	50
PT-408(P)	Clinical Training (P)	5	--	--	30	70	100
	Total	29	135	315	75	175	700

5th Semester

COURSE CODE	Course Title	Teaching Scheme	Examination Scheme				
		Credits	Theory		Practical/Viva		Total
			Internal	External	Internal	External	
PT-501	Electrotherapy –II	4	30	70	--	--	100
PT-501(P)	Electrotherapy –II (P)	4	--	--	30	70	100
PT-502	Clinical Orthopaedics	4	30	70	--	--	100
PT-502(P)	Clinical Orthopaedics (P)	2	--	--	15	35	50
PT-503	Clinical Neurology & Psychiatry	4	30	70	--	--	100
PT-503(P)	Clinical Neurology & Psychiatry (P)	2	--	--	15	35	50
PT-504	Advanced Therapeutic Exercises	2	15	35	--	--	50
PT-504(P)	Advanced Therapeutic Exercises (P)	2	--	--	15	35	50
PT-505	Ethics & Administration	2	15	35	--	--	50
PT-506	Research Methodology	2	15	35	--	--	50
PT-507(P)	Clinical Training (P)	5	--	--	30	70	100
	Total	33	135	315	105	245	800

6th Semester

COURSE CODE	Course Title	Teaching Scheme	Examination Scheme				
			Credits	Theory		Practical/Viva	
		Internal		External	Internal	External	
PT-601	Clinical Cardio- Respiratory Conditions	4	30	70	--	--	100
PT-601(P)	Clinical Cardio- Respiratory Conditions (P)	2	--	--	15	35	50
PT-602	Clinical Obstetrics, Gynaecology & Paediatrics	4	30	70	--	--	100
PT-602(P)	Clinical Obstetrics, Gynaecology & Paediatrics (P)	2	--	--	15	35	50
PT-603	Advanced Physical & Functional Diagnosis	4	30	70	--	--	100
PT-603(P)	Advanced Physical & Functional Diagnosis (P)	4	--	--	30	70	100
PT-604	Ergonomics	2	15	35	--	--	50
PT-605	Bio Engineering	2	15	35	--	--	50
PT-606(P)	Clinical Training (P)	5	--	--	30	70	100
	Total	29	120	280	90	210	700

7th Semester

COURSE CODE	Course Title	Teaching Scheme	Examination Scheme				
			Credits	Theory		Practical/Viva	
		Internal		External	Internal	External	
PT-701	Physiotherapy in Orthopaedic Conditions	4	30	70	--	--	100
PT-701(P)	Physiotherapy in Orthopaedic Conditions (P)	4	--	--	30	70	100
PT-702	Physiotherapy in Neurological Conditions	4	30	70	--	--	100
PT-702(P)	Physiotherapy in Neurological Conditions (P)	4	--	--	30	70	100
PT-703	Physiotherapy in Sports & Allied Therapeutics	4	30	70	--	--	100
PT-703(P)	Physiotherapy in Sports & Allied Therapeutics (P)	2	--	--	15	35	50
PT-704	Preventive & Community Physiotherapy	4	30	70	--	--	100
PT-704(P)	Preventive & Community Physiotherapy (P)	2	--	--	15	35	50
PT-705(P)	Clinical Training (P)	5	--	--	30	70	100
	Total	33	120	280	120	280	800

8th Semester

COURSE CODE	Course Title	Teaching Scheme	Examination Scheme					
			Credits	Theory		Practical/Viva		Total
				Internal	External	Internal	External	
PT-801	Physiotherapy in Medical, Surgical, Obstetrics & Gynaecological Conditions	4	30	70	--	--	100	
PT-801(P)	Physiotherapy in Medical, Surgical, Obstetrics & Gynaecological Conditions (P)	4	--	--	30	70	100	
PT-802	Physiotherapy in Cardio Respiratory Conditions	4	30	70	--	--	100	
PT-802(P)	Physiotherapy in Cardio Respiratory Conditions (P)	4	--	--	30	70	100	
PT-803	Physiotherapy in Geriatric & Hand Conditions	4	30	70	--	--	100	
PT-803(P)	Physiotherapy in Geriatric & Hand Conditions (P)	2	--	--	15	35	50	
PT-804	Evidence Based Practice	2	15	35	--	--	50	
PT-805(P)	Project (P)	4	--	--	30	70	100	
PT-806(P)	Clinical Training (P)	5	--	--	30	70	100	
	Total	33	105	245	135	315	800	



BPT Part I

ANATOMY

Paper 1

Maximum Marks: 80

Q1. Essays:

1. Describe in detail the type, ligaments, Relations, Blood supply, Nerve supply and movements of knee joint.
2. Describe in detail about broncho pulmonary segments.

Q.2 Short Notes:

1. Superficial palmar arch.
2. Blood supply of pancreas.
3. Femoral Nerve in femoral triangle.
4. Inter vertebral disc.
5. Pericardium.
6. Supra renal glands.
7. Epiphysis.
8. Functional areas of brain.
9. Enumerate muscles of mastication: detail about masseter.
10. Internal Jugular vein.

Q3. Short Answer:

1. Structure of bone.
 2. Morphology of calf muscles.
 3. Branches of external carotid artery.
 4. Branches of posterior cord of brachial plexus.
 5. Bursae around knee joint.
 6. Nerve supply to sternocleido mastoid muscle.
 7. Foramina of middle cranial fossa.
 8. Enumerate the extra ocular muscles.
 9. Name the foramina of diaphragm & their levels.
 10. Level of costo diaphragmatic recess of pleura.
1. Describe in detail about the hip joint under the following headings:
 - a) Type
 - b) Ligaments
 - c) Nerve supply
 - d) Blood supply

- e) movements f) Relations.
2. Explain arches of foot under the following headings:
a) Classification b) formation c) Factors responsible for intenance
d) functions. Add a note on its applied anatomy.

Q.4 Short Notes:

1. Deltoid.
2. Basal ganglion.
3. Inguinal Hernia.
4. Ulnar Nerve in the fore arm.
5. Supinator.
6. Genes.
7. Pitutary gland.
8. Screw home movement.
9. Scapular movements.
10. Extra Hepatic biliary apparatus.

Q.5 Short Answer:

1. Write any four branches of femoral artery.
2. What are the structures in inter condylar area of tibia?
3. Name the muscle producing locking and unlocking of knee joint.
4. What are the branches of arch of aorta?
5. Claw hand.
6. Foot drop.
7. Functions of cerebellum.
8. Fibrous joint.
9. Name the structures present in HILUM of right lun

Q.6 Describe the heart under the following headings. Position, coverings, external and internal features, blood supply of the heart and nerve supply. Add a note on its applied anatomy.

Q.7 Describe shoulder joint under the following headings. Articulating bones, Articular surfaces, Ligaments, Relation, Movements and the muscles producing them. Blood supply and nerve supply and applied anatomy.

Q.8 Short Notes:

1. Intercostal muscles.
2. Claw hand.
3. Types of Joint.
4. Circle of willis.
5. Supination and pronation.
6. Intervertebral disc.
7. Deep peroneal nerve.
8. Brachial artery.
9. Inguinal canal.

10. Lower end of humerus.

Q.9 Short Answer:

1. Name four branches of femoral nerve.
2. What are the intrinsic muscles of hand?
3. Name the muscles producing protraction and retraction of scapula.
4. Name the articular surface of elbow joint.
5. What are the structures passing deep to flexor retinaculum of ankle?
6. Name the arterial supply of thyroid gland.
7. Name the extraocular muscles supplied by oculomotor nerve.
8. Name the muscle producing protraction and retraction of temporomandibular joint.
9. What are the parts of corpus callosum?
10. Name the muscles attached to intertubercular sulcus of humerus.

BPT Part I

PHYSIOLOGY

Paper 2

Maximum Marks: 80

Q.1 LONG ESSAYS

1. Describe the transport of carbon-di-oxide in the blood.
2. Name the various endocrine glands in the body and describe growth hormone and applied physiology.

Q2. SHORT NOTES

1. Endoplasmic Reticulum.
2. Functions of liver.
3. Neuromuscular junction.
4. Functions of pancreas.
5. Hormones of Adrenal Gland.
6. Functions of Leucocytes.
7. Heart sounds.
8. Neuralgia.

Q.3. SHORT ANSWERS

1. Define Homeostasis.
2. Define Erythrocyte sedimentation rate.
3. Define Glomerular Filtration Rate.
4. Types of muscles.
5. Define Ovulation.
6. Types of bone cells.
7. Define tidal volume.
8. Glands of the skin.
9. Composition of the blood.
10. Properties of Platelets.

Q.4 Elaborate on:

1. Discuss the mechanism of Skeletal Muscle Contraction.
2. Define Erythropoiesis. Discuss the factors influencing erythropoiesis.

Q.5 Write notes on:

1. Functions of Thyroxine.
2. Electrocardiogram.
3. Oxygen Dissociation Curve.

4. Cerebrospinal Fluid.
5. Visual Pathway.
6. Micturition Reflex.
7. Lung Volume and Capacities.
8. Properties of Synapse

Q.6 Long Essay

1. List any four functions of Cerebellum.
2. Cyanosis.
3. Slow and fast Muscle Fibre.
4. Reflex Arc.
5. Functions of Bile.
6. Heart Sounds.
7. Name the Cardio –Vascular Reflexes.
8. Erythroblastosis Foetalis.
9. Taste Pathway.
10. Functions of Testosterone.

Q.7 Define Neuro- Muscular Junction. Describe the transmission of impulses across Neuro- Muscular Junction.

Q.8 Discuss the mechanism of Blood Clotting.

Q.9. Write notes on:

1. Electrocardiogram.
2. Muscle Spindle.
3. Bile.
4. Oxygen Dissociation Curve.
5. Functions of Thyroxine.
6. Micturition.
7. Motor Unit.
8. Menstrual Cycle.

Q.10. Short Answers:

1. Functions of Cerebro Spinal fluid.
2. Tetanus and Clonus.
3. Erythroblastosis Foetalis.
4. List the functions of Kidney.
5. Hypoxia
6. Functions of Placenta.
7. Saltatory Conduction.
8. Heart Sounds.
9. List Four functions of Cortisol.
10. All or none Law.

BPT Part I

BIOCHEMISTRY

Paper 3

Maximum Marks: 80

1. Discuss the metabolism and regulation of fructose in the liver and muscles.
2. Describe the metabolic fates of acetyl CoA in the body: How is acetyl CoA completely oxidized?
3. Name the products obtained from arginine. Discuss the pathway involved.
- 4.a. Discuss the various DNA binding motifs seen in protein DNA interactions.
b. What is the role of cyclins and cyclin dependent kinases in the cell cycle?
5. What are trace elements? Name the trace elements. Enumerate the function and disorder of any one.
6. a. What is post translational modification of proteins? Explain with the help of an example. Mention the role of vitamins in their modification.
b. Classify G-proteins according to their biological function.
7. Describe the structure and functions of plasma membrane. How are amino acids transported through plasma membrane into the cell?
10. What is Bohr's effect? Explain its mechanism at the level of peripheral tissues.
11. Discuss the lipid profile seen in diabetes mellitus and its biochemical basis.
12. What is anion gap? What are the conditions in which it is altered? Give its clinical significance?
13. What are lipotropic factors? Discuss their mechanism of action.
14. Justify the statement "Plasma immunoglobulins play a major role in the body's defense".
15. What are the various causes of fat malabsorption? How will you differentiate them with the help of biochemical tests?
16. a. Mitochondrial disorders
b. Glycosylated proteins and their clinical significance
8. Describe the role of vitamins in TCA cycle. How will patients having pyruvate dehydrogenase deficiency present clinically?
9. What are the various laboratory tests used to assess patients with disorders of :-

a.Iron metabolism

b.Copper metabolism

10. What is lactic acidosis? Give its biochemical basis, signs and symptoms. Give the laboratory tests used for its detection?

BPT Part I PSYCHOLOGY

Paper 4

Maximum Marks: 80

Q.1 Describe the scope of psychology.

OR

Describe the theory of emotions.

Q.2 Define any five

- a) Emotion.
- b) Motivation.
- c) Personality.
- d) Learning.
- e) Psychology.
- f) Stress.

Q.3 Very Short questions all attempt.

1) In the word "Psychology" the mean of "Psycho":-

- (a) Behavior (b) Development (c) Soul (d) None

2) The word "movere" is the Latin from of:-

- (a) Attitude (b) Intelligence (c) Emotion (d) Motivation

3) Need hierarchy theory given by:-

- (a) Maslow (b) Garret (c) Canon (d) Skinner

4) Phillip bard proposed the theory of:-

- (a) Personality (b) Motivation (c) Emotion (d) Learning

5) Stressors are:-

- (a) Behavioral technique (b) Cognitive technique (c) Source of stress (d) All of above

Q.4 What is counseling describe different type of counseling method.

Q.5 Describe your views on decision making explain it in a step by step process.

Q.6 What is stress describe different sources of stress.

Q.7 Define Psychology and its Scope.

Q.8 Explain classical conditions.

Q.9 Explain functional theory.

Q.10 Define motivation and explain the need hierarchy theory.

Q.11 Describe the functional and structure theory of motivation.

Q.12 Write short notes on :-

1. Developmental Psychology.
2. Intelligence.

Q.13 Write short notes on :-

1. Two factor theory.
2. Need hierarchy theory.

Q.14 Write short notes on :-

1. Write a brief note on introspection method.
2. What is attitude, explain the types of attitude with example.

Q.15 Write short notes on :-

1. Difference between Hallucination and illusion.
2. Reinforcement and its types.

BPT Part I

BIOMECHANICS

Paper 5

Maximum Marks: 80

- Q.1 Explain the movements of Sterno –clavicular joint.
- Q.2 Discuss the Arthokinematics of knee joint (TF joint).
- Q.3 Short notes :- Any two
- a) Scapulo-thoracic joint
 - b) Coraco- clavicular lig.
 - c) Iliofemoral ligament
 - d) ACL
- Q.4 Describe the “Q-angle” and add a short note on screw home mechanism.
- Q.5 Describe the anatomy and movements of functional joint of shoulder complex.
- Q.6 what is menisci & it’s functions? Also write down about patellar plicae.
- Q.7 Describe angle of torsion and angle of inclination and their effect on GH motion.
- Q.8 what is “Genu Valgum” and Genu varum.
- Q.9 Describe the resting position of scapula.
- Q.10 Describe the motions of patella.
- Q.11 Describe the role of dynamic stabilizers of GH joint with diagram?
- Q.12 What do you understand by posture? What is ideal posture explain in your words?
- Or
- Q.13 Describe kinetic & kinematics of elbow joint

Attempt any three

- a) Carrying angle
- b) Elbow ligaments and their function
- c) Genu varum
- d) Optimal posture

Q.14 Define Neuroglia? Write in detail about the classification of neuroglia cells.

- (a) What is receptor? Classify receptors through flow charts and describe interoceptors?
- (b) Give detail about description of motion.
- (c) Describe concurrent force system with suitable example with diagram?

Section[B]

Attempt any one

- (a) Describe excitatory function of synapses?
- (b) Describe Anatomical pulley with well explained diagram?

Section[C]

Q.16 Short Note (All questions carry equal marks)

- (a) Newton's law of inertia.
- (b) Myelin sheath.
- (c) Lever.
- (d) Nissl Bodies.
- (e) Torque.
- (f) Labelled diagram of cross section of nerves.
- (g) Importance of movement Arm.
- (h) Parallel force system.

Q.17 Describe the tarso metatarsal joint structure & function?

Q.18 Describe the articulating surfaces & functions of the subtalar joint?

Q.19 Short notes:-

- (A) (i) Calcaneovalgus.
- (ii) Calcaneovarus.
- (B) (i) Tarsal Tunnel.

(ii) Deltoid ligament

Q.20 Define carrying angle. Explain its normal biomechanics?

Q.21 Short notes:-

(i) Scapulo-humeral rhythm.

(ii) Deltoid muscle function.

Q.22 Short notes:-

(i) Ligaments of elbow.

(ii) Flexor group of muscles of elbow.

BPT Part I

SOCIOLOGY

Paper 6

Maximum Marks: 80

- Q.1 Define sociology. 'Sociology is the science of society' discuss the statement and the importance of sociology.
- Q.2 Write an essay on the social consciousness and perception of illness.
- Q.3 Differentiate between primary and secondary groups and describe the role of primary & secondary groups in hospital.
- Q.4 What is the role of family in developing human personality?
- Q.5 Discuss the institution of health and their role in the improvement of health of the people.
- Q.6 What is the role of socialization in hospital and socialization in rehabilitation of patients?
- Q.7 Explain influence of family on the individual's family and psychosomatic diseases.
- Q.8 Write an essay on population explosion.
- Q.9 Explain Problems of women in employment.
- Q.10 Discuss juvenile delinquency.
- Q.11 What is sociology? Discuss the application of knowledge of sociology in Physiotherapy/Occupational Therapy.
- Q.12 Write social factors affecting health status.
- Q.13 Define Sociology. Explain its relation with anthropology and psychology.

Or

Write the methods of sociology. Explain case study in detail.

- Q.14 What are social factors? Explain.

Or

Discuss the importance of sociology with special reference to health

Case professionals.

Q.15 All question equal marks. Attempt any two.

- (a) Define family. Discuss the role of family in health & diseases.
- (b) Describe the features of rural community. Discuss the health hazards of rural population.
- (c) Explain prostitution is a social problem. What are the main Indian laws to remove this social problem?
- (d) What is population explosion? Explain consequences of over population.

Section [B]

Q.16 All question equal marks. Attempt any one

- (a) Discuss the features of urban community. Explain the impact of urbanization on health and health practices.
- (b) Define family. Write down the functions of family.

Section[C]

Q.18 Short Note.

- (a) Family and nutrition.
- (b) Community
- (c) Changes in family system
- (d) Poverty
- (e) Juvenile delinquency
- (f) Alcoholism
- (g) Problem of women in employment
- (h) Unemployment

BPT Part II

PATHOLOGY & MICROBIOLOGY

Paper 7

Maximum Marks: 80

Q.1 Describe in detail about hospital acquired infection.

Q.2 Explain sterilization in detail.

Q.3 Describe hypersensitivity reaction.

OR

Describe immunization.

Q.4 Explain antigen antibody reaction in detail.

Q.5 Define UTI and explain its causes.

Q.6 Classify hypersensitivity reaction. Describe type I hypersensitivity reaction.

Q.7 What do you understand by active immunization? Give examples to explain your answer

Q.8 Short note

a) Iatrogenic Infection

b) Haptan

Name 5 Gram-Negative bacteria

Q.9 Explain Diabetes Mellitus. Give its Classification.

Q.10 What are the clinical features of Diabetes mellitus?

Q.11 Discuss the Etiology and pathogenesis of diabetes mellitus.

Q.12 What do you understand by GOUT? Write its clinical features.

Q.13 Give differences between Gout and Psuedogout.

Q.14 Mention the methods of diabetes mellitus diagnosis.

Q.15 What do you understand by cell injury? Explain response to cell injury by cells.

Q.16 What is Inflammation? Mention vascular event of acute inflammation.

Q.17 Short notes on any two:

- a) Hyperplasia
- b) Necrosis
- c) Gangrene
- d) Granuloma

Q.18 Discuss about the different types of immunity and their mechanism.

II. SHORT NOTES

1. Meningitis.
2. Tetanus.
3. Different types of Hypersensitivity.
4. Dry Heat Sterilization.

III. SHORT ANSWERS

1. Define Infection.
2. Polio.
3. Prions.
4. Flagella.
5. Enteric fever.

SECTION-B

(PATHOLOGY)

I. LONG ESSAYS

1. Give a detailed account on Auto immune diseases.

II. SHORT NOTES

1. Write note on Embolism.
2. Discuss about the types of Gangrene.
3. Define Apoptosis and explain the mechanism.
4. Write note on pneumonia.

III. SHORT ANSWERS

1. Emphysema.
2. Thrombosis.
3. Regeneration.
4. Metastasis.
5. Myasthenia gravis.

BPT Part II

PHARMACOLOGY

Paper 8

Maximum Marks: 80

Q.1 Classify preparations of insulin. Discuss mechanism of action, adverse effects and therapeutic uses of insulin.

Q.2 Discuss therapeutic uses and adverse effects of benzodiazepines.

Q.3 Write adverse effects of:

1. Penicillin's.
2. Tetracycline.

Q.4 Write short notes on therapeutic uses of :

1. Bate blockers
2. Atropine & atropine substitutes.

Q.5 Describe therapeutic uses and contraindications of morphine.

Q.6 Discuss treatment of :

1. Methyl alcohol (methanol) poisoning.
2. Organs phosphorous poisoning.

Q.7 Write short notes on :

1. Heparin.
2. Oral anticoagulants.

Q.8 Write short notes on :

1. Angiotensin converting enzyme inhibitors.
2. Iron.

Q.9 Describe in brief:

1. Succinyl choline

2. Xylocaine (lidocaine)

Q.10 Write short notes on :

1. First order kinetics.

2. First pass metabolism.

Q.11 Discuss treatment of tuberculosis.

Q.12 Write short notes on.

1. Phenytoin .

2. Therapeutic uses of H₁ – antihistaminics

Q.13 Define diuretics, their mechanism of action on human body and their uses with side effects.

Q.14 Beta Blockers, their mechanism of action, uses and side effects .

Section “B”

Q.15 Hydrocortisone and budesonide.

Q.16 Drugs for Hypoglycemia with their uses.

Q.17 Define Pharmacodynamics? Explain the factors that influence dosage and drug response?

Q.18 Describe drug- receptor complex? Explain how drugs act on living organism?

Q.19 Explain the classification of drugs of ANS? Tabulate the effect of parasympathetic & sympathetic nervous system on body organs?

BPT Part II

ELECTRO-THERAPY

Paper 9

Maximum Marks: 80

- Q.1 What do you understand by the term electro diagnosis? Write 5 notes of electro diagnosis and describe two in detail?
- Q.2 Describe pain gate theory and its application in the management of pain?
- Q.3 What are standing waves and how they are careful?
- Q.4 Explain different stages of tissue repair?
- Q.5 Explain in detail the physiological effects, methods of application and therapeutic effects of short wave diathermy?
- Q.6 Define laser. Explain in brief about properties of laser?
- Q.7 What is TENS? Discuss the type and its therapeutic uses?
- Q.8 Explain the physiology of nerve conduction?
- Q.9 Write short notes on:-
1. High Voltage pulse galvanic current.
2. Contrast-Bath
- Q.10 Describe various methods of application of cold therapy its physiological effects and clinical indication?
- Q.11 Principle of IFT? Explain its Physiological effects, indication & contra indication?
- Q.12 Write short notes on.
1. EMG.
2. SD-curve.
- Q.13 Write down physiological effects, indication, contraindication and dangers of SWD ?
- Q.14 Write down production of LASER & its Physiological effects in detail.
- Q.15 Short Note of Phonophoresis
- Q.16 Types of LASER and its therapeutic uses, indication, contraindication and precaution in detail.
- Q.17 What are the principles of SWD and write down its methods of application in details?

- Q.18 What do you understand by the term electro diagnosis? Write 5 names of electro diagnosis and describe two in detail?
- Q.19 Describe pain gate theory and its application in the management of pain?
- Q.20 What are standing waves and how they are harmful?
- Q.21 Explain different stages of tissue repair?
- Q.22 Explain in detail the physiological effects, methods of application and therapeutic effects of short wave diathermy?
- Q.23 Define laser. Explain in brief about properties of laser?
- Q.24 What is TENS? Discuss the types and its therapeutic uses?
- Q.25 Explain the physiology of nerve conduction?
- Q.26 Write short notes on:-
1. High Voltage pulse galvanic current.
 2. Contrast-Bath
- Q.27 Describe various methods of application of cold therapy, its physiological effects and clinical indication?
- Q.28 Principle of IFT? Explain its Physiological effects, indications & contra indications?
- Q.29 Write short notes on.
1. EMG.
 2. SD-curve

BPT Part II

EXERCISE-THERAPY

Paper 10

Maximum Marks: 80

- Q.1 What is aquatic therapy? Explain properties of water used in aquatic therapy?
- Q.2 Describe the determinants of resistance exercises?
- Q.3 Define aerobic exercises. Explain the changes in the body due to aerobic exercises?
- Q.4 Differentiate group and mass exercises. Describe the advantage and disadvantages of group exercises?
- Q.5 Write about movement and rhythm promoted exercises. Design a treatment plan for in- coordination in all four limbs?
- Q.6 Explain the therapeutic and preventive benefits of yoga and basic elements of yoga?
- Q.7 Define therapeutic exercises. Write down its impact on physical function?
- Q.8 Explain the principles of PNF with its patterns for upper and lower limb?
- Q.9 Define peripheral joint mobilization. Explain its uses, grades with diagrams and write down the difference between osteokinematics and arthrokinematics of the joint?
- Q.10 Define pathological GAIT. Explain normal gait cycle. Describe any two pathological gaits in detail?
- Q.11 Define stretching. Write the Neurophysiological properties of connective tissue and explain the self stretching of calf muscle?
- Q.12 Describe MAT activity in details & write down its uses?
- Q.13 What is relaxation write down general relaxation techniques in detail.
- Q.14 Describe Lever? With their anatomical example?
- Q.15 Define derived position Explain the uses & muscle action of standing position ?
- Q.16 Define movement Arm, mechanical Advantage. With their appropriate examples ?
- Q.17 Define mobility aid? Draw a neat diagram of wheelchair and elaborate its parts & measurements.
- Q.18 Define crutches? Write down the axillary crutch measurement .
- Q.19 Difference between aerobic exercise & anaerobic exercise.
- Q.20 Attempt any two:-

a) FITT

b) Traditional method of gait cycle.

c) Standard adjustable offset canes.

Q.21 What do you understand by the term 'self-stretching'. Outline the indications & contra indication of stretching ?

Q.22 Attempt any two:-

a) Grades of MMT.

b) Physiological effects of aerobic exercise.

c) Circuit- training.

BPT Part II

BIOMECHANICS & KINESIOLOGY

Paper 11

Maximum Marks: 80

- Q.1 Explain the movements of Sterno –clavicular joint.
- Q.2 Discuss the Arthokinematics of knee joint (TF joint).
- Q.3 Short notes :- Any two
- a) Scapulo-thoracic joint
 - b) Coraco- clavicular lig.
 - c) Iliofemoral ligament
 - d) ACL
- Q.4 Describe the “Q-angle” and add a short note on screw home mechanism.
- Q.5 Describe the anatomy and movements of functional joint of shoulder complex.
- Q.6 what is menisci & it’s functions? Also write down about patellar plicae.
- Q.7 Describe angle of torsion and angle of inclination and their effect on GH motion.
- Q.8 what is “Genu Valgum” and Genu varum.
- Q.9 Describe the resting position of scapula.
- Q.10 Describe the motions of patella.
- Q.11 Describe the role of dynamic stabilizers of GH joint with diagram?
- Q.12 What do you understand by posture? What is ideal posture explain in your words?
- Or
- Q.13 Describe kinetic & kinematics of elbow joint

Attempt any three

- e) Carrying angle

- f) Elbow ligaments and their function
- g) Genu varum
- h) Optimal posture

Q.14 Define Neuroglia? Write in detail about the classification of neuroglia cells.

- (d) What is receptor? Classify receptors through flow charts and describe interceptors?
- (e) Give detail about description of motion.
- (f) Describe concurrent force system with suitable example with diagram?

Section[B]

Attempt any one

- (c) Describe excitatory function of synapses?
- (d) Describe Anatomical pulley with well explained diagram?

Section[C]

Q.16 Short Note (All question carry equal marks)

- (i) Newton's law of inertia.
- (j) Myelin sheath.
- (k) Lever.
- (l) Nissl Bodies.
- (m) Torque.
- (n) Labelled diagram of cross section of nerves.
- (o) Importance of movement Arm.
- (p) Parallel force system.

Q.17 Describe the tarso metatarsal joint structure & function?

Q.18 Describe the articulating surfaces & functions of the subtalar joint?

Q.19 Short notes:-

- (A) (i) Calcaneovalgus.
- (ii) Calcaneovarus.
- (B) (i) Tarsal Tunnel.
- (ii) Deltoid ligament

Q.20 Define carrying angle. Explain its normal biomechanics?

Q.21 Short notes:-

- (i) Scapulo-humeral rhythm.
- (ii) Deltoid muscle function.

Q.22 Short notes:-

- (i) Ligaments of elbow.
- (ii) Flexor group of muscles of elbow.

BPT Part II

ADVANCE THERAPEUTIC EXERCISE

Paper 12

Maximum Marks: 80

Q.1 Define balance. Explain the role of sensory system in balance control.

Q.2 **Short note:**

- 1) Hip strategy.
- 2) Balance training (dynamic).

Q.3 **Short note:-**

- 1) Self stretching hamstring muscle in pool.
- 2) Aquatic temperature regulation.

Q.4 Various electro diagnosis techniques used in Physiotherapy. Explain any one in detail.

Q.5 Define Gait with its various phases. Explain quantitative gait analysis .

Q.6 A 17 year old footballer had suffered an injury in his RT knee while playing 15 days back. Mention various special tests for differential diagnosis of his condition.

Section “B”

Attempt any two

Q.7 Disability evaluation.

Q.8 Superficial jerks.

Q.9 Chest Auscultation with neat labeled diagram.

Q.10 Concavo Convex Rule with diagram.

Q.11 A physical therapist evaluating a 66 year old female who has a history of severe head trauma following a motor vehicle accident. The patient has difficulty with rapid alternating movements while performing neurologic testing. The BEST term to describe this specific impairment is: Explain

1. Ataxia
2. Dysmetria
3. Dysarthria
4. Dysdiadokokinesia

Q.12A 30 year old male presents to outpatient rehabilitation with numbness and tingling on the 4th and 5th fingers of the left hand consistent with nerve entrapment symptoms. Upon further examination, it is noted that the patient has normal sensation on the dorsum of the hand on the ulnar side. Where is the MOST likely source of nerve entrapment? Elaborate?

1. Guyon's Canal
2. Carpal Tunnel
3. Cubital Tunnel
4. 1st Rib

Q.13A 22 year old female presents to the clinic with a chief complaint of knee pain following a twisting injury while playing soccer 5 days ago. The patient's knee is swollen significantly and is unable to jump or run. What special test would be the MOST appropriate to diagnose the injury?

1. Lachman's test
2. Posterior drawer test
3. Active Lachman's test
4. External Rotation Recurvatum Test

Q.14A patient presents to the clinic with right shoulder pain and complains of difficulty reaching overhead, with pain especially from 60-120 degrees of shoulder flexion. Which special test would be MOST informative for this set of symptoms?

1. Neer Test
2. Empty Can Test
3. Crossover Test
4. Push Off Test

BPT Part III

ORTHOPAEDICS

Paper 13

Maximum Marks: 80

- Q.1 Describe clinical features and treatment of supra Condylar fracture humerus.
- Q.2 What are the causes & signs and symptoms of median nerve injury. Describe its management.
- Q.3 Classification of fracture neck femur. Describe treatment at the age of 60 years.
- Q.4 Describe etiopathology, clinical features & management of pott's spine at DII- 12level.
- Q.5 Describe management of compound fracture tibia.
- Q.6 Describe etiopathology, clinical features & management of osteo arthritis knee.
- Q.7 Describe etiopathology, clinical features & management of osteogenic sarcoma.
- Q.8 Describe mode of injury, clinical features & management of meniscal injuries of knee.
- Q.9 Describe etiopathology, clinical features & management of cerebral palsy.
- Q.10 Describe clinical features & management of Colle's fracture.
- Q.11 Write Short notes on:-
1. Ganglion.
 2. Tennis elbow.
- Q.12 Write in Brief :
1. tendon injuries of hand..
 2. Secondaries spine .
 3. Frozen Shoulder.
 4. CTEV.

BPT Part III

GENERAL SURGERY/OBS-GYN

Paper 14

Maximum Marks: 80

Q.1 Describe Pulmonary complications during post operation period after general anesthesia

Q.2 Write short notes on :

1. Blood fraction in packed cells, plasma etc..
2. Hospital A acquired infection.

Q.3 Write short notes on :-

1. Difference between external fistula & internal fistula & investigations..
2. Tubercular sinuses in neck.

Q.4 Write short notes on :-

1. Difference between tendon graft & tendon transfer.
2. Management of hand infections.

Q.5 Short notes:-

1. Preoperative assessment of cardiac surgery patient.
2. Surgery emphysema.

Q.6 Short notes:-

1. Management of diabetic ulcer in foot.
2. Complications of leprosy.

Q.7 Define gangrene, clinical features prevention and treatment of gangrene foot

Q.8 Short notes:-

1. Suspensory ligaments of cervix.
2. Effects of oestrogen, progesterone & Relaxin on reproductive organs .

Q.9 Prevention & management of complications of pregnancy

Q.10 Write Short notes on:

1. Pelvic floor.
2. Urinary incontinence.

Q.11 Write Short notes on:

1. Cerebral palsy in neonatal Period
2. Talipes calcaneovalges.

Q.12 Management of I, II, III, stages of labour and complications in labour.

Q.12. Describe PID. Its sign. Symptoms & treatment.

Q.13 What are the stages of labour? How will you manage a case of labour.

Q14. Short notes on any of four.

- a) Cerebral palsy
- b) Supports of uterus
- c) Morning sickness.

- d) Immunization
- e) Low Backache

Q.15 Describe Pulmonary complications during post operative period after general anesthesia

Q.16 Write short notes on :-

1. Blood fraction in packed cells, plasma etc.
2. Hospital A acquired infection.

Q.17 Write short notes on :-

1. Difference between external fistula & internal fistula & investigations..
2. Tubercular sinuses in neck.

Q.18 Write short notes on :-

1. Difference between tendon graft & tendon transfer.
2. Management of hand infections.

Q.19 Short notes:-

1. Preoperative assessment of cardiac surgery patient.
2. Surgery emphysema.

Q.20 Short notes:-

1. Management of diabetic ulcer in foot.
2. Complications of leprosy.

Q.21 Define gangrene, clinical features prevention and treatment of gangrene foot .

Q.22 Short notes:-

1. Suspensory ligaments of cervix.
2. Effects of oestrogen, progesterone & Relaxin on reproductive organs .

Q.23 Prevention & management of complications of pregnancy

Q.24 Write Short notes on:-

1. Pelvic floor.
2. Urinary incontinence.

Q.25 Write Short notes on:-

1. Cerebral palsy in neonatal Period
2. Talipes calcaneovalges.

Q.26 Management of I, II, III, stages of labour and complications in labour.

BPT Part III

MEDICINE/PEDIATRICS

Paper 15

Maximum Marks: 80

Section- (A)

- Q.1 What is pneumococcal pneumonia? Describe its etiology, clinical features and management.
- Q.2 What is bronchiectasis? Describe its clinical features investigations and management.
- Q.3 What is anemia? Describe classification of anemia and management of iron deficiency anemia.
- Q.4 Describe clinical features and management of congestive heart failure.
- Q.5 Describe clinical features and treatment of gout and chronic renal failure.
- Q.6 Write short notes on:-
1. Deep vein thrombosis .
 2. Vitamin-A.

Section- (B)

- Q.7 Describe cerebral palsy with clinical features and management.
- Q.8 What are the causes of diarrhea in children and how you will manage a case of diarrhea with dehydration
- Q.9 Describe Short note on:
1. Spina bifida
 2. Mental Retardation
- Q.10 Write short notes on :
1. Immunization .
 2. Poliomyelitis.
- Q.11 Write short notes on:-
1. Hydrocephalus
 2. Pleural effusion
- Q.12 Write short notes on.
1. Jaundice .
 2. Obesity .
- Q.13 Discuss the aetiology, clinical features & management of multiple sclerosis.
- Q.14 Classify name injuries. Discuss the PT management of ulnar nerve injury.
- Q.15 Describe Asexual life cycle of malaria parasite.
- Q.16 Discuss the measures of general health protection of workers.

Q.17 Describe health problems of pregnant & prelactating mother

Q.18 Discuss the proteins

Q.19 Discuss the state health administration.

Q.20 Define and describe rehabilitation.

Q.21 Discuss the physical occupational hazards.

Q.22 Discuss types of transmission of communicable diseases

Q.23 Attempt any two

1. Leonine facies .
2. Prodromal symptoms
3. Dot's.

Q.24 Attempt any two .

1. Night Blindness.
2. Quarantine.
3. Safe Period.

Q.25 Discuss the aetiology, clinical features & management of multiple sclerosis.

Q.26 Classify nerve injuries. Discuss the PT management of ulnar nerve injury.

Q.27 Write the aetiology, clinical features & management of a person with Parkinson's disease.

Q.28 Write down causes of Cerebral palsy and describe management of diplegic spastic child in detail.

Q.29 Write Short notes on any two:-

1. Possible Complication of pneumonia
2. Lead Pipe rigidity
3. Syringomyelia

Q.27 Describe the case, clinical features & PT management of a myocardial infarction.

Q.28 Write short notes on any two:-

1. Motor neuron disease
2. Stills disease.
3. Bell's Palsy.

Q.29 Describe the acute & port acute phases of stroke rehabilitation.

Q.30 Describe the common deformity of rheumatoid arthritis & explain its Physiotherapy management.

Q.31 Define emphysema; write its cause & predisposing factor, clinical feature & role of Physiotherapy management of emphysema.

Q.32 Write Short notes on any two:-

1. Sciatica.
2. Spina Bifida.
3. PPRP

BPT Part III

NEUROLOGY/NEUROSURGERY

Paper 16

Maximum Marks: 80

(Section- A)

- Q.1 What is meningitis? Discuss etiology, clinical features and management of bacterial meningitis.
- Q.2 What is G.B. S.? Describe its clinical features and management.
- Q.3 What is parkinsonism? Describe its clinical features and management.
- Q.4 Discuss various types of epileptic disorders, their clinical features and management.
- Q.5 Discuss neurogenic bladder with classification and management.
- Q.6 Discuss etiology, clinical features and management of myasthenia gravis.

(Section- B)

- Q.7 What is Paraplegia? Describe its clinical features and management.
- Q.8 Describe about motor neuron disease.
- Q.9 Describe short notes on :-
1. Bell's Palsy.
 2. Cervical spondylosis .
- Q.10 Describe short notes on :-
1. Meningocele.
 2. Amyotrophic lateral sclerosis.
- Q.11 Discuss about management of head injury in acute stage.
- Q.12 What is subarachnoid haemorrhage? Discuss its clinical features and management.
- Q.13 Describe all questions. Internal choice is given. Attempt any one
- (a) What is paraplegia? Describe management of paraplegia.

(b) Describe clinical features of head injury and management of head injury.

Q.14 Describe short notes upon any three

- (a) Status epileptics.
- (b) Hemiplegic.
- (c) Poliomyelitis.
- (d) Median nerve palsy.

BPT Part III

FUNCTIONAL-ASSESSMET

Paper 17

Maximum Marks: 80

Q.1 International Co-operative ataxia rating scale.

Q.2 Pulmonary Rehabilitation..

Q.3 Write short notes on: -

1. ASIA impairment scale.
2. Spasm Frequency scale.

Q.4 Write short notes on :-

1. Barthel index.
2. GCS

Q.5 Discuss in detail the international classification of functions (ICF).

Q.6 Short notes: -

1. PEDI
2. GMFCS

Q.7 Describe berg balance scale (BBS).

Q.8 Fim scoring system.

Q.9 Short notes:-

1. Modified Ashworth's scale & grades of voluntary control.
2. Grades of pressure sore.
3. Timed get up & go test.
4. Pain scale (any one).

Q.10 what are the methods of communication with patients. Discuss its principles in relation to Physiotherapy.

Q.11 Write Short notes on:-

1. Co-ordination Tests.

2. RLA scale.

Q.12 Write an essay on quality of life scores.

Q.13 International Co-operative ataxia rating scale. .

Q.14 Pulmonary Rehabilitation..

Q.15 Write short notes on: -

1. ASIA impairment scale.

2. Spasm Frequency scale.

Q.16 Write short notes on :-

1. Barthel index.

2. GCS

Q.17 Discuss in detail the international classification of functions (ICF).

Q.18 Short notes: -

1. PEDI

2. GMFCS

Q.19 Describe berg balance scale (BBS).

Q.20 Fim scoring system.

Q.21 Short notes:-

1. Modified Ashworth's scale & grades of voluntary control.

2. Grades of pressure sore.

3. Timed get up & go test.

4. Pain scale (any one).

Q.22 what are the methods of communication with patients. Discuss its principles in relation
Physiotherapy.

Q.23 Write Short notes on:-

1. Co-ordination Tests.

2. RLA scale.

Q.24 Write an essay on quality of life scores.

BPT Part III

COMMUNITY MEDICINE

Paper 18

Maximum Marks: 80

Q.1 Discuss of Scopes of epidemiology.

Q.2 Discus the function of W.H.O.

Q.3 Describe Asexual life cycle of malaria parasite.

Q.4 Discuss the measures of general health protection of works.

Q.5 Describe health problems of pregnant & prelactating mother.

Q.6 Discuss the proteins.

Q.7 Discuss the state health administration.

Q.8 Define and describe rehabilitation.

Q.9 Discuss the physical occupational hazards.

Q.10 Discuss types of transmission of communicable diseases

Q.11 Attempt any two

1. Leonine facies
2. Prodromal symptoms
3. DOTS

Q.12 Attempt any two

- 1.Night Blindness
2. Quarantine
3. Safe Period

Q13.What is health? Describe the indicators of the community health.

Q14.What is environment anthropology?

Q15.Describe Asexual life cycle of malaria.

Q16.Schedule of immunization.

Q17.Signals of poor mental health.

Q18.Scopes of epidemiology.

Q.19.Side effects of oral contraceptives.

Q.20.Modes of transmission of communicable disease.

Q.21.Signals of mental ill health.

Q.22.Scopes of epidemiology.

Q.23 Define any two.

a) incubation period.

b) Safe period.

c) Epidemic

BPT Part IV

PT IN ORTHOPAEDIC CONDITIONS

Paper 19

Maximum Marks: 80

1. Define Prosthesis? Explain the pre and post prosthetic training for above knee amputation of a 23 years old young male?
2. Define Dislocation? Explain the PT management for inferior dislocation of shoulder?
3. Explain the PT management and rehabilitation for right femur shaft fracture?
4. Describe the special tests and PT management for Supraspinatous tendinitis?
5. Define RA? Explain the PT management?
6. Define CTEV? Explain the PT rehabilitation?
7. Describe the special test and PT management for meniscus injury?
8. Describe the fracture healing process and list down the factors influence the fracture healing?
9. Define the flexion injury of cervical spine with PT management?
10. Write short note on:
 - i. Pott's fracture
 - ii. Spina bifida
11. Write PT management for:
 - i. Bursitis
 - ii. Trigger point
11. Write short note on:
 - i. scoliosis
 - ii. SI joint special test

BPT Part IV

PT IN SURGICAL CONDITIONS/OBS-GYN

Paper 20

Maximum Marks: 80

Q.1 Classify burns? Elaborate its Patho-physiology, write down the positioning strategies of 3^o (three Degree) burn?

Q.2 Define incontinence. Explain different types of urinary incontinence?

Q.3 Write the post operative complications of herniorrhaphy. Brief on the pre and post operative physiotherapy management?

Q.4 What is lobotomy? Elaborate its pre & post operative Physiotherapy management?

Q.5 Short Notes on

1. Classification of skin grafting

2. MC- Burney's incision

Q.6 Name the pelvic floor muscles? Write down the strengthening protocol of pelvic floor muscles?

Q.7 Role of Physiotherapy in post cesarean delivery? Outline the complications of pregnancy?

Q.8 What is myocardial infarction? Explain its physiotherapy management?

Q.9 Define Postural Drainage. Write down its indications, contra indications. Draw neat diagram to show. Postural drainage position of middle lobe?

Q.10 what is lymph edema? Outline its measurement for upper & lower limb? Write down its physiotherapy management?

Q.11 Write down the sites of flexor tendon injuries? Explain its physiotherapy management?

Q.12 Write short notes on

1. Toxic shock syndrome

2. Klumpke's palsy

BPT Part IV

PT IN MEDICAL/PEDIATRIC CONDITIONS

Paper 22

Maximum Marks: 80

- Q.1 Explain the signs & Symptoms which occurs during an attack of bronchial asthma. Give an account of its PT management.
- Q.2 What is C.V.A? Describe its PT Management.
- Q.3 Discuss the role of Physiotherapy in psychiatric conditions.
- Q.4 Short note on any two:-
- (a) Tabes dorsalis
 - (b) Rickets
 - (c) Foot drop
- Q.5 Discuss PT management for a patient with multiple sclerosis.
- Q.6 Discuss the causes and PT management of CP.
- Q.7 Short on any two :-
- (a) Spontaneous pneumothorax
 - (b) Thrombo angitis obliterans
 - (c) Fascio scapulohumeral muscular dystrophy.
- Q.8 Define MND? Enumerate the pathology, clinical features and PT management.

- Q.9 Classify nerve injuries? Discuss the PT management of sciatic nerve injury.
- Q.10 Define PVD? Explain Buerger's diseases & management.
- Q.11 Explain PFT in detail.
- Q.12 What is polio? Write the pathology and explain its PT management.
- Q.13 Define syringomyelia, write signs & symptoms along with PT management.
- Q.14 What is Thromboangitis Obliterans? Explain the clinical feature & PT management.
- Q.15 Write short note on:-
- a) Causes of atherosclerosis
 - b) Rickets
- Q.16 Describe assessment & management of a child with athetoid C.P.
- Q.17 Discuss the role of Physiotherapy in:-
- a) Psychiatric patients
 - b) Bell's palsy
- Q.18 Discuss PT management for a patient with multiple sclerosis.
- Q.19 Explain the signs & symptoms which occurs during acute attack of bronchial asthma, Give an account of its PT management.
- Q.20 Write short note on:-
- a) Hydrocephalus
 - b) Role of PT in Transverse- myelitis
- Q.21 Write down the etiology clinical features & PT management of parkinson's diseases.
- Q.22 What is C.V.A ? Describe its clinical features & PT management.
- Q.23 Write in detail rehabilitation of a patient of 54 years old male admitted to ICU with chest pain ECG findings shows ST segment elevation, patient had history of diabetes, obesity & increased VLDL & decreased HDL.
- Q.24 Describe assessment & management for emphysema.

BPT Part IV

RESEARCH METHODOLOGY/BIOSTATISTICS

Paper 23

Maximum Marks: 80

Q.1 Define research. Write in detail about various steps involved in research process with flow chart?

Q.2 Draw the histogram & frequency polygon from the following frequency distribution.

Marks	No. of Students
0-5	7
5-10	10
10-15	20
15-20	13
20-25	17
25-30	10
30-35	4
35-40	9

Q.3 Calculate arithmetic mean from the following frequency distribution by direct, short cut & step deviation method.

Class Interval	No. of Students
0-10	10
10-20	20
20-30	30
30-40	15
40-50	10

Q.4 Describe total quality management in detail?

Q.5 Short Notes

1. Use of micro computers in research?

2. Career development.

Q.6 Short Notes

1. Define correlation? Explain the types of correlation?
2. R.O.L (Review of Literature).

Q.7 Short questions :-

1. Calculate mode from the following series: I

Class internal (C.I.)	F
1-5	6
6-10	9
11-15	15
16-20	7
21-25	5

2. Which distribution is more consistent?

	Distribution-I	Distribution-II
Size	70	80
A.M (Arthmatic mean)	80	90
Variance	120	144

Q.8 Short note: -

1. What is T-test? Calculate whether mean difference of two group is significant or not at .05 of .01 level of signification [df=150, table value of T-test at .05 level is 1.99 & .01 is 2.59]

Name	N	Mean	S.D
Boys	100	10	4
Girls	50	11	5

2. Measures of Central Tendency?

Q.9 Calculate median from the following frequency distribution:-

Class internal (C.I.)	Frequency
1-5	5
6-10	10
11-15	15
16-20	12
21-25	11

26-30	7
-------	---

Q.10 Write short notes on.

1. Components of an Ethically informed consent.
2. Need of research in Physiotherapy..

Q.11 Define management & its function? Explain Administrative management theory by “Henri Fayol”.

Q.12 Write short notes on.

1. Demography & vital statistics.
2. Time Management.

BPT Part IV

CLINICAL BASED REHABILITATION

Paper 24

Maximum Marks: 80

- Q.1 What is Vocational rehabilitation? Name the professional involved in Vocational Rehabilitation and explain their impotents in vocational rehabilitation.
- Q.2 What do you understand by architectural Barriers? How will plan a house for a wheel chair bound young female?
- Q.3 Discuss the community based rehabilitation for 21 year old male with right below knee amputation.
- Q.4 Name the various non-medical professional members of rehabilitation team. Explain the role of social worker.
- Q.5 Define wheel chair? Mention various measurement of wheel chair.
- Q.6 What is orthotics? How will you manage foot drop with it, explain.
- Q.7 What do you understand by assistive devices? How will you prescribe walker, explain.
- Q.8 What is disability evaluation?
- Q.9 What in communication? Role of Physiotherapy in communication impairment.
- Q.10 Write down the difference between IBR & CBR.
- Q.11 Short note any two
- (a) Yoga therapy
 - (b) Disability
 - (c) Asthma rehabilitation
- Q.12 Short note any two

(a) Post burn rehabilitation

(b) Sports injuries

(c) MR