Maharashtra University of Health Science, Nashik Physiotherapy Syllabus

II - B.P.Th.

(This syllabus is applicable from 2008 – 2009 i.e. from the batch who gets admitted to the First B.P.Th course in the year – 2007-08)

Subjects – Transcript

Hours-1400

1.Pathology 2hrs/week (Theory)	50 hrs
2.Microbiology 1hr/week (Theory)	30 hrs
3.Pharmacology 1hr/week (Theory)	50 hrs
4.Kinesio Therapy 9hrs/week Th-100 : F	Pract – 200 hrs 300 hrs
5.Electrotherapy 9hrs/week Th-100 : P	ract – 200 hrs 300 hrs
6.Psychology	(Theory) 30 hrs
7.Seminars – alternate Saturday	40 hrs
8.Supervised Clinical practice 3 hrs / day +	6days / week 600 hrs

(To practice clinical skills under the supervision of Senior clinical staff at the O.P.D. set up & to maintain a Register / Log book-in which the prescribed Case Histories, & written assignments are to be documented & to obtain the signature from the respective section In-charge at the end of the assignment.)

PATHOLOGY

(DIDATIC – 50 hrs)

Objectives- At the end of the course, the student will be able to-

- 1) Acquire the knowledge of concepts of cell injury & changes produced thereby in different tissues & organs-; capacity of the body in healing process
- 2) Recall the Etio pathogenesis, the pathological effects & the clinico pathological correlation of common infections & non-infectious diseases.
- 3) Acquire the knowledge of concepts of neoplasia with reference to the Etiology, gross & microscopic features, diagnosis, & prognosis in different tissues, & organs of the body.
- 4) Correlate normal & altered morphology of different organ systems in different diseases needed for understanding disease process & their clinical significance (with special emphasis to neuro-musculo-skeletal & cardio-respiratory systems)

- 5) Acquire knowledge of common immunological disorders & their resultant effects on the human body.
- 6) Understand in brief, about the Hematological diseases & investigations necessary to diagnose them & determine their prognosis.

Syllabus:

- 1) a) General Pathology- Cell injury-causes, mechanism & toxic injuries with special reference to Physical, Chemical, & ionizing radiation
 - b) Reversible injury (degeneration)- types-morphology,- swelling, hyaline, fatty changes,
 - c) Intra-cellular accumulation-hyaline mucin,
 - d) Irreversible cell injury-types of necrosis- apoptosis calcification- dystrophic & metastasis,
 - e)Extra-cellular accumulation-amylidosis, calcification-Pathogenesis- morphology
- 2) Inflammation & Repair:
 - a) Acute inflammation features, causes, vascular & cellular events,
 - b) Morphologic variations,
 - c) Inflammatory cells & mediators,
 - d) Chronic inflammation:- causes, types, non-specific & granulomatous with examples
 - e) wound healing by primary & secondary union factors promoting & delaying healing process.
 - f) Healing at various sites- including-bones, nerve & muscle
 - g)- Regeneration & repair
- 3) Immuno pathology (basic concepts)
 - a) Immune system:- organization-cells- antibiodies- regulation of immune responses,
 - b) Hyper-sensitivity,
 - c) Secondary immuno-deficiency including HIV,
 - d) Organ transplantation
- 4) Circulatory disturbances
 - a) Edema pathogenesis types transudates / exudates,
 - b) Chronic venous congestion- lung, lever, spleen,
 - c) Thrombosis formation fate effects,
 - d) Embolism types- clinical effects,
 - e) Infarction types common sites

- f) Gangrenes types actiopathogenesis
- g) Shock Pathogenesis, types, morphologic changes
- 5) Deficiency disorders Vitamins A,B,C,D,
- 6) Growth Disturbance
 - a) Atrophy-malformation, agenesis, dysplasia,
 - b) Neoplasia classification, histogenesis, biologic behavious, difference between benign & malignant tumour
 - c) Malignant neoplasms- grades-stages-local & distal spread,
 - d) Carcinogenesis environmental carcinogens
 - e) Chemical, Occupational, heredity, vira,
 - f) precancerous lesions & ca in situ
 - g) Tumor & host interactions systemic effects-metastatic or direct spread of tumors affecting bones, spinal cord, leading to paraplegia, etc.
- 7) Medical Genetics (In Brief)
- 8) Specfic Patholgy:- A]- CVS
 - a) Atherosclerosis Ischimic heart diseases myocardial infarction Pathogenesis / Pathology b) Hypertension c) C.C.F. d)- Rh H.D.
 - e)- Peripheral vascular diseases
- B)- Respiratory
 - a)- COPD,

- b)- Pneumonia (lobar, broncho, viral),
- c)- T. B. Primary, secondary morphologic types,
- d)- pleuritis, complications,
- e)- Lung collapse atelectasis

- C) NeuroPathology
 - a)- Reaction of nervous tissue to injury infection & ischaemia
 - b)- Pyogenic meningitis, TBM, Viral,
 - c)- Cerebro vascular diseases atherosclerosis Thrombosis, embolism, aneurysm, hypoxia, infarction & hemorrhage.
 - d)- effects of Hypotension on CNS
- e)- Coma
- f)- Polio myelitis- Leprosy- Demyelinating diseases Parkinsonism Cerebral palsy- metachromatic leucodystrophy Dementia Hemiplegia / paraplegia Pathogenesis & pathology of Wilson's disease
- g)- SOL- (in brief)
- h)- Peripheral nerve injury
- 9) Muscle diseases Muscular dystrophy-hypertrophy-Psudo-hypertrophy-altrophy-Polio-myelitis Myositis ossoficance, neorosis, regeneration-Myotonia
- 10) Neuro muscular junction Myasthenia gravis Myasthenic syndrome.

11) Bone & Joints - a)fracture healing - Osteomyelitis - rickets - Osteomalacia -Bone tumors

Osteoporosis

- a) Spondylosis, P.I.D.- Scoliosis Haemarthrosis Gout T.B.
 - b) Arthritis degenerative inflammatory RA-Ankylosing spondylitis Tenosynovitis
- 12) Urinary commonly encountered in paralytic bladder, common urinary tract infections (brief)- urinary calculi-
- 13) G.I. system- (1hr)- Gastric/ duodenal ulcer, enteric fever, TB, enteritis, Gastritis (related to consumption of NSAID)
- 14) Endocrine Hyperthyroidism Diabetes
- 15) Hepatic diseases (1hr)- Cirrhosis emphasis to systemic effects of portal hypertension
- 16) Skin-Melanin pigment disorders Vitiligo Tenia versicolor-Psoriasis-Bacterial/fungal infections – cutaneous TB, Soleroderma, SLE, Leprosy Alopacia
- 17) Clinical pathology (including Demonstrations)
 - a) Anemia (deficiency) T.C./D.C./ Eosinophilia, E.S.R., C.P.K,
 - b) Muscle / skin / nerve biopsy c)- Microscopic appearance of muscle necrosis fatty infiltration d)- Lab investigation in liver & renal failure

TEXT BOOKS -

- 1.Text book of Pathology by Harsh Mohan
- 2. Pathologic basis of desease by Cotran, Kumar, Robbins
- 3. General Pathology by Bhende

MICROBIOLOGY

Didactic – 30 hrs

Objectives: At the end of the course, the candidate will have sound knowledge of the agent responsible for causing human infections, pertaining to C.N.S., C.V.S. musculoskeletal, & Respiratory system.

Syllabus:

1] General Microbiology i) Introduction & scope 1 hrs
2] Classification of Micro-organisms & morphology of Bacteria 1 hrs
3] Sterilization & disinfection [basic concepts] 2hrs
hospital acquired infection, universal safety precautions,
Biomedical waste disposal 2 hrs
4] Immunology 5 hrs
i) Antigen antibody – reaction & application for diagnosis;
ii) Immune response – normal / abnormal
iii) Innate immunity & acquired immunity [vaccination]
iv] Hyper – sensitivity & auto-immunity
5] Laboratory Diagnosis of Infection 3hrs
6] Bacteriology 7 hrs
i) Infection caused by gram +ve cocci; Gas gangrene – clostridium – Diptheria
ii) Infection caused by gram –ve cocci, Septicemia-cholera – Shock –Typhoid-
diarrhoea;
iii) Mycobacterial infection tuberculosis-Leprosy-Atypical Mycobacterium
iv) syphilis – morphology & pathogenesis [VDRL]
7] Viruses 3 hrs
i) Introduction & general properties,
ii) HIV
iii) Hepatitis
iv) Polio, measles, congenital viral infections, Rubella, CMV Herpes
8] Mycology 1 hrs
Mycetoma – Aspergilosis – candidiasis
9] Parasites affecting C.N.S 2 hrs
Malaria – Filaria – Toxoplasma – Cystisarcosis & echinococcus
10] Applied Microbiology 3 hrs
as relevant to diseases involving Bones, Joints – Nerves – Muscules-Skin-
brain- cardiopulmonary system, & burns.

Text books of Microbiology – by R. Ananthnarayan & C.K. Jayram Panikar

SCHEME OF EXAMINATION (THEORY ONLY)

#-Pathology – 50 marks + Microbiology – 30 marks = 80 marks + I.A. – 20 marks = Total 100 marks

There shall be NO L A.Q.s in this paper

#Emphasis to be given to topics related to Muskulo Skeletal / Neurological / Cardiovascular / Respiratory conditions & Wound / Ulcers /

Section I- M.C.Q. based on Single best answer in MUST KNOW area --- time 30 min

Q-1 based on Pathology [1 x 20] ----- 20 marks

Q-2 Based on Microbiology [1 x 10] ----- 10 marks Section B-S.A.Q. based on Pathology

Q-3 To answer Any FIVE out of Six [5 x 3] ----- 15 marks

Q-4 To answer any THREE out of Four [3 x 5] ------ 15 marks Section C. S.A.Q. based on Microbiology

Q-5 Answer any FOUR out of Five [4 x 5] ------ 20 marks

INTERNAL ASSESSMENT

Two exams – terminal and prelim of 80 marks each – Total 160 marks

PHARMACOLOGY

[DIDACTIC – 50 hrs]

Objectives: At the end of the course the candidate will be able to -

- 1] Describe Pharmacological effects of commonly used drugs by patients referred for Physiotherapy, list their adverse reactions, precautions to be taken & contraindications, formulation & route of administration.
- 2] Identify whether the pharmacological effect of the drug interferes with the Therapeutic response of Physiotherapy & vis-a-versa
- 3] Indicate the use of analgesics & anti-inflammatory agents with movement disorders with consideration of cost, efficiency, & safety for individual needs.
- 4] get the awareness of other essential & commonly used drugs by patients- The bases for their use & common as well as serious adverse reactions.

Syllabus:

A] MUST KNOW -

- i] Drugs described in topics 2 to 9;
- ii] Pharmacological effects & mechanism, Formulation, Route of administration, salient Pharma-kinetic feature,
- iii] adverse Reactions;
- iv] Precautions & contra-indications.

B] DESIRABLE

- I] Major group of drugs described in topics 10, 11 & 12
- II] bases of use in indicated conditions;
- III] Common & serious Adverse Reactions

TOPICS -

1] General Pharmacology 3 hrs
- Drug Pharmco-kinetics - Pharmacology - adverse reaction - factors modifying
drug effect
2] Drug activity of CNS 9 hrs
- Introduction [1hr] alcohols + Sedatives & hyphotics [2hrs], Anti-convulsionts [1hrs]
Analgesics & antipyretics – specially Gout & R.A. [3 hrs] Psycho Therapeutics
[1] ;General anaesthetic + local anaesthetic [1hr]
3] Drugs acting on peripheral nervous system 5 hrs
i] Adrenergic ii] Cholinergic
4] Drug therapy in Parkinsonism 2 hr
5] Skeletal muscle relaxants 2 hr

6] Drugs acting on CVS ----- 6 hrs

i] Hyper tension ii] B-blockers, iii] Ca channel ACEI, iv] blockers [prazosi	n] [1hr],
Diuretics [1hr] CCF - [1hr] Angina [1hr] Antiarrythmia + Shock [1hr	r], Drug
satisfying Homeostasis [1hr]	
7] Drugs acting on Respiratory system 4	hrs
for upper respiratory tract infections - sinusitis- cough, laryngitis, pha	aryngitis
[2 hr], For	
Bronchial asthma – [1hr] for COPD – effects of prolonged drug administrati	on [1hr]
8] Insulin [1hr] & oral anti-diabetic drugs [1hr]2	2 hrs
9] Chemo – therapy 3	hrs
i) general principles [1hr], ii] anti Tuberculosis [1hr], & iii] anti –leprosy [1hr]	
10] Other Chemo Therapeutic drugs 2	2 hrs
i] Sulfa drugs in urinary tract infection, ii] tetra / chlora, iii] penicillin	
iv] cephalosporin, v] aminoglycides, vi] Microlytic	
11] Endocrine 4	l hrs
i] introduction, Thyroid & Antithyroid [1hr]; ii] Estrogen + Progesterone [1] iii] s	steroids-
anabolic steroids [2hrs]	
12] Drugs in G.I. tract 4	hrs
I] Peptic ulcer + antiemetic [3hrs], ii] Diarrhoea & constipation [1hr]	
13] Heamatinics, Vitamin B; Iron 1h	ırs
14] Dermatological Scabies – Psoriasis – Local antifungal 1 h	ırs
15] Vaccines & Sera 1 h	ırs
16] Vitamin – D, Calcium, Phosphorus, Magnesium 1 h	ırs.

- 1.Pharmacology by Gaddum
- 2.Medical Pharmacology by Drill
- 3. Pharmacology principle of Medical practice by Krantx, & Carr
- 4. Pharmacological basis of Therapeutics by Goodman, L.S. Gilman A

SCHEME OF EXAMINATION –

[Theory – 40 marks + Internal assessment – 10 marks]

[There shall be No L. A. Qs in this paper]

Section A Q-1, M.C.Q.- based on single best answer in MUST KNOW area -- 10 marks

- * Section B-Q-2-S.A. Q To answer any FIVE out of six [5 X 3] ----- 15 marks
- * Section –C-Q-3-S.A.Q. To answer any THREE out of four [3 x 5] ----- 15 marks
- * Emphasis should be given to the drugs related to Musculo-skeletal/Psycho-Neurological / Cardio-Vascular / Respiratory conditions / analgesics & antiinflammatory conditions

INTERNAL ASSESSMENT -

Two papers – terminal and prelim examination of 40 marks each. TOTAL 80 MARKS

Didactic - 100 hrs + Practical / laboratory - 200 hrs

Objective: – At the end of the course, the candidate will be able to –

- analyze Normal human posture [static & dynamic] & various Normal musculo skeletal movements during Gait, activates of daily living, & also the normal describe the movements of the Thorax during berating, ; in terms of Biomechanical & Physiological Principles.
- 2] Apply the biomechanical principles for the efficacy in the assessment methods for mobility, stability, muscle strength and endurance.
- 3] Describe the Biophysical properties of connective tissue, & effect of mechanical loading, & factors which influence the Muscle strength, & mobility & stability of articular & periarticular soft tissues
- 4] Describe the physiological effects, Therapeutic uses, merits / demerits of various exercise modes.
- 5] Demonstrate various therapeutic exercises on self, also acquire the skill of application on Models.
- 6] Acquire the skill of assessment of isolated & group muscle strength, & Range of motion of the joints subjectively & objectively

Syllabus:

- Biomechanics of joints of the skeletal system
 [spine, extremities, T.M. joint & Thoracic cage] Factors determining mobility & stability (Dynamic) of joint
- 2] Kinetics & Kinematics of various activities of daily living e.g. supine to sitting, sitting to standing, squatting, climbing up & down, lifting, pulling, pushing, overhead activities, walking running, jogging.
- 3] a) Assessment of muscle strength, [group/individual] subjective & objective methods 1/10 RM dynamometry Endurance exercises
 - b) Factors that influence the strength of the normal muscle/hypertrophy, recruitment of motor units, change after training / type of contraction Isometric / Isotonic / Isokinetic Eccentric.
 - c) General principles of strength training :- overload / intensity/ Motivation/ learning/ duration/ frequency/ reversibility/ specificity —
- 4] a] Bio-physical properties of connective tissue, [contractile & non-contractile] elasticity / Plasticity response to sudden/ slow/ sustained loading –strain curve-Creep Hysteresis

- b] Mobilisation Methods stretching / traction [cervical & lumber] / Hold Relax method-rhythmic movements/oscillations.
 - c] mobilization of muscles & Fasciae-around the shoulder / elbow/wrist /Hip/knee/ankle / Spine [dorso-lumber fascia]
- 5] Methods of Assessment of the Posture Sitting / standing/Lying/Physiological deviations of the posture
- 6] Methods of assessment of Gait-measurements for walking aids asillary / elbow crutches, walking sticks Pre-crutch training, crutch gaits.
- 7] Co-ordination & Balance neural control Methods of co-ordination exercises Frankel's exercises.
- 8] Principle of P.N.F. [no practical]
- 9] Breathing exercises Goals Inspiratory Expiratory / Segmental Forced expiratory coughing huffing / Modified Inspiratiory / Active cycle of breathing.
- 10] Bronchial Hygiene postural drainage position/ humidification
- 11] Principles of Home programme & Ergonomic advise
- 12] Functional Re-education
 - a] Functional motor skills, e-Motor skills to function independently in ADL
 - b] Mobility, Bed / Wheel chair mobility, ambulation
- 13] Application of mat exercises [to practice on self & on models]
- 14] 6 Minute walk test on models (only technique)
 PRACTICAL No. 3a, 4b, 5, 6,7,9,10,12 a & 13, 14

- 1. Progressive resisted exercises by Margaret Hollis,
- 2. Therapeutic Exercise by Carolyn Kisner
- 3. Kinesiology by Cynthia Norkins
- 4.PNF Knott and Voss

REFERENCE BOOKS

- 1. Therapeutic exercise by Basmijjan & Wolf.
- 2. Muscle testing by Daniel Kendall
- 3. Clinical evaluation Lacote (for Isolated assessment of abdominal muscles)
- 4. Muscle stretching & Auto stretching Olaf Evjenth
- 5.Orthopaedic Evaluation Magee (only for assessment of posture)

SCHEME OF EXAMINATION

Theory – 80 marks + Internal assessment 20 marks, ------ Total 100 marks

Practical / laboratory – 80 marks, + I.A. 20 marks ----- Total 100 marks

THEORY--- Model question paper ---
Section A-Q-1-M.C.Q. based on Single best answer – MUST KNOW area – 20marks

Section B SAQ-Q-2] Answer any FIVE out of six [5 x 3] ------ 15 marks

Q-3] Answer any THREE out of Four [3 x 5] ------ 15 marks

* Section –C-L.A.Q. – 4] [Compulsory] Based on Kinesiology ----- 15 marks

5] Therapeutic application for Muscle training / Posture / Gait ----- 15 marks

OR

Q-6] Therapeutic application for Mobility / Pulmonary function ----- 15 marks

*[LAQ should give Break up of 15 marks – e.g. [3+5+7] etc]

PRACTICAL

- 1. Long case Muscle training / Mobility /Pulmonary Function training (35 marks)
- 2. Two Short Case :- Based on M.M.T. /Coordination/Posture / Gait/ Funct-reed etc.

(20 X 2 = 40 marks)

3. Journal (5 marks)

INTERNAL ASSESSMENT

THEORY

Two papers - terminal and prelim examination of 80 marks each
Total - 160 marks
THEORY--- Model question paper ----
Section A-Q-1-M.C.Q. based on Single best answer – MUST KNOW area – 20marks
Section B SAQ-Q-2] Answer any FIVE out of six [5 x 3] -----
15 marks
Q-3] Answer ant THREE out of Four [3 x 5] -----
15 marks
* Section –C-L.A.Q. – 4] [Compulsory] Based on Kinesiology -----
15 marks
OR
Q-6] Therapeutic application for Muscle training / Posture / Gait -----
15 marks
VR
Q-6] Therapeutic application for Mobility / Pulmonary function -----
15 marks
*[LAQ should give Break up of 15 marks – e.g. [3+5+7] etc]

I.A. to be calculated out of 20 marks.

PRACTICALS

Two exams - terminal and prelim examination of 80 marks each Total - 160 marks

- 1. Long case Muscle training / Mobility (joint / soft tissue) /Pulmonary Function training (35 marks)
- 2. Two Short Case: Based on M.M.T. /Coordination/Posture / Gait/ Funct-reed etc.

(20 X 2 =40 marks)

3. Journal (5 marks)

I.A. to be calculated out of 20 marks.

ELECTROTHERAPY

[300 hrs]

Didactic – 100 hrs + Practical / laboratory – 200 hrs

Objective: At the end of the course, the candidate will be able to –

- 1] Describe the Production & Physiological effects, Therapeutic uses, merits, demerits indication & contraindications of various low/medium & high frequency modes
- 2] describe the Physiological effects & therapeutic uses of various therapeutic ions & topical pharmaco -therapeutic agents to be used for the application of iontophoresis & sono/ phono phoresis
- 3] Acquire the skill of Application of the Electro therapy modes on models, for the purpose of Assessment & Treatment.
- 4] acquire an ability to select the appropriate mode as per the tissue specific & area specific application.

Syllabus:

- 1] Low frequency currents
 - a] Cathodal / Anodal Galvanism, Ionotophoresis with various ions & pharmacotherapeutic drugs
 - b] Electrical stimulation for re-education short / long pulse motor points.
 - c] strong surged faradic current under pressure / elevation c] T.N.S. types
 - d] High voltage currents e] Micro -current f] Didynamic currents
- 2] Medium frequency currents Beat frequency types Endovac attachment advantage of I.F.T. over low frequency currents.
- 3] Bio-Feedback methods-
- 4] High frequency thermal agents S.W.D. types continuous / Pulsed types of electrodes
- 5] Therapeutic Ultra sound pulsed / continuous –
- 6] Actino Therapy a] Radiant heat [I.R.] b] U.V.R. a/b/c types Test dose, local & general application c] Laser He/Ne, & I.R. combination.
- 7] Care of wound application of Therapeutic currents, Ultrasound, U.V.R. & LASER

PRACTICAL

skills of application to be practiced on models –in No-1 to 7 above

- 1. Clayton's Electro Therapy
- 2. Electro therapy Explained by Low & Read
- 3. Electro Therapy by Kahn,
- 4. Therapeutic Electricity by Sydeny Litch

REFERENCE BOOKS

Clinical Electro Therapy – by Nelson & Currier

SCHEME OF EXAMINATION

THEORY - 80 MARKS + I.A. - 20 MARKS; TOTAL 100 MARKS PRACTICAL / LAB - 80 MARKS; I.A. - 20 MARKS TOTAL 100 MARKS **THEORY** – Model question paper Section A- M.C.Q. Q1] based on Single best answer [20 x 1] ----- 20 marks [To include all MUST KNOW areas] Section B-S.A.Q. Q-2] to answer any FIVE out of Six [5 x 3] [must know area] ----- 15 marks Q-3] to answer any THREE out of Four [3 x 5] ----- 15 marks Based on Actino Therapy -----* Section C-L.A.Q. Q-4] Should be based on High frequency modes ----- 15 marks Q-5] should be based on Low / Medium frequency currents ----- 15 marks OR Q-6] should be based on Low / Medium frequency currents ----- 15 marks LAQ should give break up of 15 marks – e.g. [3 +5+7]

PRACTICAL / LABORATORY

(80 marks)

- Long Case On model Motor points / U.V.R. Test Dose. Faradism under pressures (35 marks)
- 2. Two Short Case One based on Low or medium Freq current

Second based on high Freq. current / Actinotherapeutict.

 $(20 \times 2 = 40 \text{ marks})$

3. Journal (5 marks)

INTERNAL ASSESSMENT

THEORY

Two papers - terminal and prelim examination of 80 marks each	Total - 160 marks
Section A- M.C.Q.	
Q1] based on Single best answer [20 x 1]	20 marks
[To include all MUST KNOW areas]	
Section B-S.A.Q.	
Q-2] to answer any FIVE out of Six [5 x 3] [must know area]	- 15 marks
Q-3] to answer any THREE out of Four [3 x 5]	
Based on Actino Therapy	15 marks
* Section C-L.A.Q.	
Q-4] should be based on High frequency modes	- 15 marks
Q-5] should be based on Low / Medium frequency currents	- 15 marks
OR	
Q-6] should be based on Low / Medium frequency currents	15 marks
LAQ should give break up of 15 marks – e.g. [3 +5+7]	
I.A. to be calculated out of 20 marks.	

PRACTICAL

Two exams - terminal and prelim examination of 80 marks each Total - 160 marks

- Long Case On model Motor points / U.V.R. Test Dose . Faradism under pressures (35 marks)
- Two Short Case One based on Low or medium Freq current
 Second based on high Freq. current / Actinotherapy.

 $(20 \times 2 = 40 \text{ marks})$

3. Journal (5 marks)

I.A. to be calculated out of 20 marks.

PSYCHOLOGY

(Didactic - 30 Hrs)

Objective: At the end of the course, the candidate will

- 1] be able to define the term Psychology, & its importance in the Health delivery system, & will gain knowledge of Psychological maturation during human development & growth; & alterations during aging process.
- 2] be able to understand the importance of psychological status of the person in health & disease; environmental & emotional influence on the mind & personality.
- 3] Describe in brief the various treatment modalities commonly used.

Syllabus:-

- 1] Psychiatric History & examination of mental status.
- 2] Classification of Mental disorders
- 3] Schools of thought Psycho-analytical theory, Behaviourism, gestalt, Stucturalism, Functionalism [In Brief]
- 4] Learning Role of learning in human life Conditioning
- 5] Emotions- nature & relationship with autonomic nervous system- Theories of emotions
 - a] James Lange theory, b] Schachter Singer theory, c] Cannan Bard theory
- 6] Memory types Forgetting causes
- 7] Attention & perception Nature of attention [in brief] Nature of perception Principles of grouping
- 8] Conflict & Frustration Types –Common Defense mechanism stress-common reactions to frustrations.
- 9] Abnormal Psychology [in brief] a] Introduction b] deference between normal & abnormal psychology, c] Causes, d] Anxiety disorders Phobias, Obsessive compulsive, Hysterical convulsion disorder e] Affective disorders Depression, mania, Bipolar disorders; f] Psychotic disorders Types of Schizophrenia

TEXT BOOKS -

- 1] Morgan C.T. & King R.A. Introduction to Psychology 7th edn [Tata McGraw-Hill publication]
- 2] Munn N.L. Introduction to Psychology [Premium Oxford, I.B.P. publishing co.]
- 3] Clinical Psychology By Akolkar

SCHEME OF EXAMINATION

Theory 40 marks + I.A. – 10 Marks 50 mar	ks
[There shall be no LAQ in this paper]	
Section A-Q-1 MCQs – based on MUST KNOW area 10 mark	s
Section B-Q-2-SAQ-to answer any FIVE out of Six [5x3] 15 mark	s
Section C-Q-3-SAQ – to answer any THREE out of Four [5 x 3] 15 marks	s

INTERNAL ASSESMENT

Two papers – terminal and prelim examination of 40 marks each Total 80 marks Internal Assessment to be calculated out of 10 marks

SCHEME OF EXAMINATION – IInd B.P.TH

Subject	Theory	IA	Total	Clinical	IA	Total	College
1] Pathology & Microbiology	50 + 30	20	100				
2] Pharmacology	40	10	50				
3] Kinesiotherapy	80	20	100	80	20	100	
4] Electrotherapy	82	20	100	80	20	100	
5] Psychology	40	10	50				