FACULTY OF PHYSICAL EDUCATION

SYLLABUS

FOR

BACHELOR OF PHYSICAL EDUCATION (ONE YEAR COURSE)

EXAMINATION: 2013



GURU NANAK DEV UNIVERSITY AMRITSAR

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(ii) Subject to change in the syllabi at any time. Please visit the University website time to time.

PAPER-1: FOUNDATION OF PHYSICAL EDUCATION

Time: 3 Hours Max. Marks: 100

Instructions for the Paper Setters:

Question paper will be divided into three sections as follows:

Section A: The candidates are required to attempt all the ten questions in not more than five

lines each and carrying two marks each. 10x02= 20 Marks

Section B: The candidates are required to attempt eight out of twelve questions in not more

than two pages each carrying six marks each. **08x06=48 Marks**

Section C: The candidates are required to attempt two out of four questions in not more

than five pages each and carrying sixteen marks each. 16x02=32 Marks

Unit-I

Introduction:

- 1. Inroduction, Meaning, definition of Physical Education
- 2. Aims and Objectives of Physical Education
- 3. Professional Qualifications and Personal Qualities of Physical Educator.
- 4. Write about Narrow and Broader Concept of Physical Education.
- 5. Scope of Physical Education in Modern Arena.
- 6. Role of Physical Education in General Education, Health Education and recreation
- 7. Physical Education: Displine or Profession

Unit-II

Biological Foundation:

- 1. Principles of Exercise Normal Load, Over Load, Crest Load
- 2. Meaning of Use, Disuse and Overuse in Physical Education
- 3. Growth and development of Curriculum in Physical Education.
- 4. Effect of heredity and environment on growth and development.
- 5. Body types and Performance
- 6. Structural and Functional differences in male or female
- 7. Physical Education as a Biological Science
- 8. Identification of Chronological, Physiological and Anatomical Ages

Unit-III

Psychological Foundation:

- 1. Learning, Characteristics of Learning, Factors Influencing the Learning.
- 2. Domains of Learning Cognitive Learning, Affective Learning, Psychomotor Learning, Methods of Learning.
- 3. Theories of Learning Trial and Error, Insight of Gestalt Theory, Classical Condition Theory, Operant Conditioning.
- 4. Laws of Learning and Implication in Sports Situation. Transfer of Training.
- 5. Meaning of Play, Theories of Play.
- 6. Reflexes and Conditioned reflexes.

Unit-IV

Physiological Foundation:

- 1. Sense and kinesthetic sense and performance.
- 2. Effects of exercise on Digestive Systems
- 3. Effects of Exercise of Nerves Systems
- 4. Effects of Exercise on Endocrine and Excretory Systems
- 5. Effects of exercise on Respiratory Systems

Unit-V

Sociological Foundation

- 1. Social nature and learning of man. Social change, social value, social groups
- 2. Sociological aspects of Physical Education.
- 3. Social institutions and their influence.
- 4. National integration Through Physical Education
- 5. Leadership and qualities of good leader
- 6. Group dynamics, Influence of the Group on Individual and Vice Versa
- 7. Influence of the Group on Individual and Vise Versa
- 8. Competition and Co-operation.

Unit-VI

Philosophical Foundation:

- 1. Realism and Physical Education
- 2. Idealism and Physical Education
- 3. Pragmatism and Physical Education
- 4. Naturalism and Physical Education
- 5. Existentialism and Physical Education
- 6. The Philosophical Approach of Physical Education

Unit-VII

Historical Foundation:

- 1. Physical Education in Ancient and Modern India
- 2. Physical Education in Ancient Greece
- 3. Physical education in Sparta and Athens.
- 4. Physical education in Ancient Rome.
- 5. Physical Education In USSR
- 6. Physical Education in Europe Germany, Spain, France, Great Britain, Sweden, Denmark
- 7. Physical Education in China and Japan

Unit-VIII

Major Sports Events

- 1. Olympics Games, Winter Olympics, Para Olympics
- 2. Asian Games
- 3. SAF Games
- 4. Common Wealth Games.

Unit-IX

Promotional Organizations Schemes:

- 1 NSNIS
- 2 Teaching and Training Institutes of physical education
- 3 National Sports Awards (Rajiv Gandhi Khel Ratan Award, Arjuna Award, Daronacharya Award, Major Dhyan Chand Award, Maka Trophy)
- 4. YMCA and YWCA and its contribution in Physical Education.
- 5. SAI; Its Schemes and Contribution in Promoting Physical Education
- 6. Renowned Sports Personalities–Major Dhyan Chand (Hockey), Milkha Singh (Athletics), Jarnail Singh (Football), Sachain Tendulkar (Cricket).
- 7. Indian Olympic Association.

Unit-X

Modern Arena of Physical Education:

- 1. Professionalism in Physical Education
- 2. Yoga in Modern Living
- 3. Scientific Promotion of Physical Education
- 4. Changing Trends in Physical Education
- 5. Scientific Apparatus in Physical Education.

- 1. Bucher Charles A. 1983 "Foundation of Physical Education" The CV Mosby Company, Missouri.
- 2. Barrow M. Harold- 1973 " Man & Movement: Principles of Physical Education" Henry Kimpton Publisher.
- 3. Felson Janet -1967 "Perspective & Principle of Physical Education" John Wiley & Sons, New York.
- 4. Frost B. Reuben 1975 "Physical Education Foundation Principles" Addison- Wesley Publishing Company.
- 5. Freeman H. William 1982 "Physical Education & Sports in Changing Society" SS Chabra for Surject Publications, Kohlapur.
- 6. Harrison M. Joyce 1983 "Instructional Strategies for Physical Education" Wm. C. Brown Company Publisher.
- 7. Khan Ahmed Araj 1964 "Histort of Physical Education" Bhargava Bhushan Press, Varanasi.

PAPER-II: ANATOMY, PHYSIOLOGY AND HEALTH EDUCAITON

Time: 3 Hours Max. Marks: 100

Instruction for the Paper Setters:

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Section C: The candidates are required to attempt two out of four questions in not more

than five pages each and carrying sixteen marks each. 16x02=32 Marks

Unit-I

Introduction:

- a. Introduction, Meaning and Definition of Anatomy and Physiology
- b. The role of Anatomy and Physiology in Physical Education
- c. Introduction to Human body, Basic Constituents of the living body- Cells, Tissues, Organs and Systems

Unit-II

Skeletal System:

- a. Introduction of Skeletal System
- b. Bones and Joints of Skeletal System
- c. Types and Functions of Joints
- d. Classification of Joints

Unit-III

Muscular System:

- a. Meaning and Types of Muscle, Voluntary, Involuntary and Cardiac
- b. Micro-scopic Structure of Muscle fiber
- c. Effect of Exercise on Muscular System
- d. Physical Changes during Muscle Contraction

Unit-IV

Circulatory System:

- a. Heart; Structure and Function
- b. Composition and Functions of Blood
- c. Mechanism of Blood Circulation
- d. Changes during Exercise in Heart beat, Strok Volume, Cardiac Out-put and Blood pressure

Unit-V

Respiratory System:

- a. Structure and Function Respiratory Systems
- b. Mechanism of Respiration, Vital Capacity, Exchanges of Gases
- c. Dynamic of Pulmonary Ventilation
- d. Effect of Training on Respiratory System

Unit-VI

Digestive System:

- a. Organs and Mechanism of Digestion
- b. Structure and Function of Digestive System
- c. Digestion Absorption and Assimilation of food, metabolism
- d. Function of the liver and pancreas

Nervous System:

- a. Nervous System- Organs- Location and Function
- b. Brain and Its Part
- c. Central Nervous System and Peripheral Nervous System
- d. Autonomous Nervous System and Structure of Neuron

Unit-VII

Excretory System:

- a. Excretory System -Organs of Excretory system, Structure of Function
- b. Structure and Function of Kidneys
- c. Acid base Balance- Skin Structure and Function
- d. Sweat Glands -Temperature Regulation

Unit-IX

Health Education:-

- a. Meaning and definition of health education
- b. Meaning and concept of health
- c. Factors influencing-Health-Exercise, diet, climate, age, surrounding, occupation and heredity
- d. Guiding Principles of Health and Health Education

Unit-X

School Health Programme:

- a. School Hygiene–School Building Ventilation and Light, Seating Arrangements, Water Supply Facilities and Play Grounds
- b. School Health Programme–Health Instruction, Health Supervision, Health Services and Medical Examination of Students

- 1. Davis Ahdrew: Human Physiology, Horcout Publisher, 2001.
- 2. E.W.April: Anatomy, Harwal Publishing Company, Pennsylvania, 1984
- 3. Frank. J. Cermy and Harold. W. Burton: Exercise Physiology for Health Care Professional, Human Kinetics Newzeland, 2001.
- 4. Mojumdar. Ram Mohan (Dr.): Anatomy and Physiology, Sports Publication, New Delhi, 2009.
- 5. Rod. R. Suley: Anatomy and Physiology, Idaho State University Philip Tata, U.S.A. 2003.
- Singh, Inderbir, Textbook of Anatomy with Colour Atlas (3rd Edition), Jaypee Brothers,
 New Delhi, 2003.

PAPER-III: KINESIOLOGY & BIOMECHANICS

Time: 3 Hours Max. Marks: 100

Instructions for the Paper Setters:

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08x06=48 Marks

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than five pages each and carrying sixteen marks each. 16x02=32 Marks

UNIT-I

1. Meaning of Kinesiology, Aims and objectives of Kinesiology.

2. Origin and History of Kinesiology, Importance of Kinesiology in Physical education and coaching.

UNIT-II

Structure and Classification of Bones and their Functions.

- 1. Meaning, Structure and Chemical composition of bones.
- 2. Functions and types of bones.
- 3. Meaning and types of joints.
- 4. Fundamental movement around the joints and Terminology.
- 5. Important Characteristics of movement.
- 6. Structure of following major bones.
 - I. Upper Extremities
 - a. Clavicle
 - b. Sternum
 - c. Skull
 - d. Scapula
 - e. Humorous
 - f. Radius
 - g. Ulna

- II. Bones of lower extremities
 - a. Femur
 - b. Patella
 - c. Hip Bone
 - d. Pelvic griddle
 - e. Tibia
 - f. Fibula
- 7. Plane and axis

UNIT-III

- 1. Cartilage and Types of Cartilage
- 2. Injuries, Types of Injuries, Causes of Injuries
- 3. Causes and Treatment of following injuries.
 - a. Sprain
 - b. Strain
 - c. Fracture
 - d. Muscle Cramp
 - e. Abrasion
 - f. Contusion
- 4. Strength, Endurance, Flexibility, Factors affecting the strength, Endurance and Flexibility.

UNIT-IV

- 1. Meaning and types of Muscles.
- 2. Functions and Properties of Muscles.
- 3. Types of Muscle Contraction.
- 4. Structure of skeleton muscle, sliding filament theory of muscle contraction.
- 5. Techniques of studies of Muscular analysis.

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UNIT-V

Muscle of the lower Extremities:

- 1. Gluteus group, Quadriceps group, Hamstring group Sartorious.
- 2. Muscle of the Thigh. Vastus lateralis, Vastus Medialsis, Vastus Inter Medius, Bicep Fimoris, semi membranosus, Semitendius, Rectus femoris, gastrocnemus
- 3. Muscle of Ankle and Foot Seleus, Perneus longus Fiexer digitorum longus, Flexer, Hallucis longus Tibialis anterior and Posterior, extensor Digitoru

UNIT-VI

Kinesiology of Posture:

- 1. Posture, causes and correction of poor posture.
- 2. Common Deformities, there causes and treatment
 - 1. Kyphosis 2. Scoliosis 3. Lordosis 4. Flatback 5. Knockknee
 - 6. Flatfoot 7. Bowl eggs.
- 3. The selection and evaluation of exercise for conditioning and corrective purpose

UNIT-VII

BIOMECHANICS:

- 1. Meaning of Biomechanics, Role of Biomechanics in Physical Education.
- 2. a. Motion, Types of Motion, Newton's Laws of Motion
 - b. Distance, Displacement (Linear and Angular).
 - c. Speed and Velocity (Linear and Angular).
 - d. Acceleration and deacceleration. (Linear and Angular).
 - e. Movement of inertia.

UNIT-VIII

- 1. Equilibrium, Stability and its Principles.
- 2. Spin, Rebound, Projectile, Impulse.
- 3. Biomechanics of Jump–Long Jump, High Jump
- 4. Biomechanics of throwing- Short put, Javelin, Discus
- 5. Biomechanics of Hitting, Catching, Pushing, Running

UNIT-IX

- 1. Work, Power, Energy and Types of Energy, Transformation of Energy.
- 2. Force, Its types, Factors determining the force.
- 3. Concept of centripetal and centrifugal forces.
- 4. Moment of force
- 5. Lever and Different types of lever and mechanical advantage of lever.

UNIT-X

- 1. Application of Kinesiology to Motor skill of Daily Living.
 - a. Walking
 - b. Stair Climbing
 - c. Lifting and Carrying
 - d. Sitting
 - e. Pushing and Pulling
- 2. Centre of gravity and factors affecting the center of gravity

Reference Books:

- 1. Barry, L. and Jack K.N.: Practical Measurements for Evaluation in Physical Education, Burger Publication, 1982."
- 2. Foxel and Mathews D.K.: The Physiological Basis of Physical Education and Athletics, Saunder's College Publishing, 1985."
- 3. Gengenbach S. Marianne: Conservative Management of Sports Injuries, Williams and Wilkins Publication, 1996.
- 4. Hoffman J. Shir and Harris C. Janet: Introduction to Kinesiology Studding Physical Activities, Human Kinetics Publication, 2000.
- 5. Oatis A. Carol: Kinesiology the Mechanics of Pathomechanics of Human Movement, Publication Lippincott Williams and Wilkins, 2004.
- 6. Rasch J. Philip and Burke K. Roger: Kinesiology and Applied Anatomy the Science of Human Movement, Henry Kinton Publication, 1975.
- 7. Uppal .A.K.: Biomechanics in Physical Education and Exercise Science, Friends Publication, 2004.
- 8. Zatriorsky M. Vladimis: Kinetics of Human Motion, Human Kinetics Publication, 2002.

PAPER-IV: SPORTS MANAGEMENT

Time: 3 Hours Max. Marks: 100

Instructions for the Paper Setters:

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than five pages each and carrying sixteen marks each. 16x02=32 Marks

Unit-I

Introduction:

- a) Introduction, Meaning and Definition of Sports Management
- b) Meaning, Definition of Organization and administration
- c) Need ,Importance and Scope of Sports Management
- d) Principles of Organization and Administration
- e) Guiding principles of Management

Unit-II

Management Organization and Structure

- a. Management of Physical Education and Sports at:-
 - I. Schools
 - II. Colleges
 - III. Universities
 - IV. Clubs and Associations
- b. System of Management Organization
- c. Laying of Swimming-Pool and Gymnasium

UNIT-III

Management Techniques

- Management Skill and Procedures: Communicating, Staff Meeting, Office Management, Polices and Procedure
- b) Financial Management
 - I. Introduction and Function
 - II. Meaning, Concept and Need of Budget
 - III. Budgeting- Types of Budget
 - IV. Criteria of good Budget Organization
 - V. Budget Report, Accounting and Audits

UNIT-IV

Curriculum:

- a) Meaning, Definition and Modern Concept of Curriculum.
- b) Need for Change in Curriculum
- c) Principles and Techniques of Curriculum Development.
- d) Steps and Factors Effecting Curriculum Development

UNIT-V

Programme Management:

- a) Management of Programme, Facilities, Equipments and Supplies
- b) Management of Competition and Participation
 - I. Intramural
 - II. Inter -College
 - III. Inter-School
 - IV. Handicapped Sports

UNIT-VI

Supervision in Managements:

- a) Meaning and Importance of Supervision.
- b) Need and Concept of Supervision
- c) Principles of Supervision
- d) General Methods of Supervision

Unit-VII

Class Managements:

- a) Importance of Class Management
- b) Principles of Class Management
- c) Meaning and Steps in Class Management
- d) Important Considerations for Good Class Management

Unit-VIII

Teaching methods and lesson Planning

- (a) Teaching Methods: Meaning and Importance
- (b) Scope of Teaching Methods
- (c) Factors effecting teaching methods
- (d) Lesson plan: Importance and need of Lesson plan
- (e) Types of lesson plan

Unit-IX

Classification:

- a) Meaning and Importance of Classification
- b) Method of Classification
- c) Factors effecting classification
- d) Classification of Physical Activities

Unit-X

Time-Table Management:

- (a) Need and Importance of Time-Table Management.
- (b) Principles of preparing a time-Table
- (c) Factors effecting Time-Table
- (d) Teacher Pupils Ratio and Teaching load

REFERENCES:

- 1. Allen, L.A.: Management & Organization, Koga Kusha Co. Tokyo.1988.
- 2. Bucher, Charles A.: Administration of Physical Education & Athletic Programs, C. V. Mosby Company, London, 1983.
- 3. Chakraborty, S.: Sports Management, New Delhi, Sports Publication, 1995.
- 4. Daughtrey & Woods: Physical Education and Intramural Programs; Organization and Administration, W.B. Saunders Company, Toronto, 1976.
- 5. Harrison, Joyce M: Instructional Strategies for Physical Education, Wm. C. Brown Company Publishers Dubuque, Lowa, 1983.
- 6. Horine, Larry: Administration of Physical Education and Sports Program (Second Edition) Wm. C. Brown Publisher, 1991.
- 7. Kamlesh, M. L.: Management Concept in Physical Education and Sports, New Delhi, Metropolitan Book Co. Pvt. Ltd., 2000.
- 8. Metzler, Michael W.: Instructional Supervision for Physical Education, Human Kinetics Books Publishers, Champagin, Illinois, 1952.
- 9. Penman, Kenneth A.: Planning Physical Education & Athletic Facilities In School, John Wiley & Sons Publishers, New York, 1977.
- 10. Sivia G.S.: Sports Management in Universities, New Delhi, A.I.U. Deen Dyal Upadhyaya Marg.1991.

PAPER-V: OFFICIATING AND COACHING

Time: 3 Hours Max. Marks: 100

Instructions for the Paper Setters:

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Section A: The candidates are required to attempt all the ten questions in not more than five

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Section B: The candidates are required to attempt eight out of twelve questions in not more

than two pages each carrying six marks each. **08x06=48 Marks**

Section C: The candidates are required to attempt two out of four questions in not more

than five pages each and carrying sixteen marks each. 16x02=32 Marks

Unit-I

- 1. Importance and Principles of Officiating.
- 2. Qualities of good Officials.
- 3. Relation of Officials with Managements, Players, Coaches and Spectators.

Unit-II

- 1. Duties of Officials
 - a. Pre-game
 - b. During Game
 - c. Post Game
 - 2. Measures for Improving the Standard of Officials

Unit-III

Rules of Different games and Dimensions of Play fields:-

- a. Badminton
- b. Basketball
- c. Cricket
- d. Football
- e. Handball
- f. Hockey
- g. Kabaddi
- h. Kho-Kho
- i. Softball
- j. Volleyball

Unit-IV

- 1. Number of Officials and their Specific Duties in Different Games
 - a. Athletics (Track and Field Events)
 - b. Basketball
 - c. Cricket
 - d. Football
 - e. Handball
 - f. Hockey
 - g. Kabaddi
 - h. Kho-Kho
 - i. Softball
 - j. Volleyball
- 2. Preparation of Score Sheet

Unit-V

- 1. Lay out of Standard Athletic Track. Points to keep in mind while Laying out Track,
- 2. Dimension and Marking of Standard Track.
- 3. Meaning of Doping and Its Interpretation

Unit-VI

Method of Drawing Fixtures in the Following types of Tournaments and Competitions:

- a. Knock out
- b. League
- c. Combination

Unit-VII

- 1. Fundamentals of conditioning
 - a. Warming-up and Cooling down
 - b. Principles of Training
- 2. Methods of Conditioning and Training
 - a. Circuit Training
 - b. Interval Training
 - c. Weight Training
 - d. Fartlek Training
 - e. Plyometrics
 - f. Isotonic
 - g. Isometric

Unit-VIII

- 1. Meaning of Coach and Coaching
- 2. Principles of Coaching
- 3. Qualities and Qualifications of good coach

Unit-IX

- 1. Coaching Aids and Devices
- 2. Preparation of Sports Coaching lessons
- 3. Safety in Games and Sports
- 4. Difference between Teaching and Coaching

Unit-X

- 1. Evaluation in Coaching
- 2. Features of good Evaluation
- 3. Various Methods of Appraisal
- 4. Importance of Coach and Player in Evaluation
- 5. Values and uses of Records

- 1) Brar. T.S. "Officiating Techniques in Track and Field" Gwalior Bhargave Press, 2002
- 2) Billie J. Jones, L. Janetb Wells: Guide to Effective Coaching Principles and Practice, Liabrary of Congress Cataloging in Publication Data (Main entry under Title), Printed in the USA, Copyright, 1982.
- 3) Desouza A.J. "Track Geography and Fields Sides" Chennai. DBAC Sports Envision., 1999
- 4) H.R.H. The Princess Anne: Coach Education, Preparation for a Profession, British Liabrary Cataloging in Publication Data, 1986.
- 5) John Li. Bann: Scientfic Principles of Coaching, 1972 by Prentice- Hall, INC. Englewood Cliffe, New Jersey.
- John D. Lawther: Psychology of Coaching, Prentice–Hall, INC. Englewood Cliffe, New Jersey, Copyright-1951.
- 7) Jack H. Lulewellgn, Judy A. Blucker: Psychology of Coaching, Theory and Application, Surject Publication.
- 8) Leonard, Richard: The Administration Side of Coaching," West Uirginia Universty, 2005.
- 9) Rawat, Ashok Kumar: Coaching in Sports "Sports Publication", New Delhi, 2009.

PAPER-VI: YOGA

Time: 2 Hours Max. Marks: 50

Instructions for the Paper Setters:

Note: Questions paper will be divided into three sections as follows;

Section A: The candidates are required to attempt all the ten questions in not more than five

lines each and carrying one marks each. 10x01= 10 Marks

Section B: The candidates are required to attempt eight out of twelve questions in not more

than two pages each carrying three marks each. **08x03=24 Marks**

Section C: The candidates are required to attempt two out of four questions in not more

than five pages each and carrying eight marks each. **02x08=16 Marks**

Unit-I

1. Introduction:-

- a. Definition of Yoga, Aims and Objectives of Yoga, Yoga as a Science and Art.
- b. Streams of yoga-Karma Yoga, Bhakti Yoga, Gyana Yoga, Raj Yoga, Hatha Yoga, Mantra Yoga, Kundalihi Yoga.

2. Brief History of Yoga:-

- a. Yoga history through Indus Valley civilization, Yoga history through Pre-vedic Period and past vedic periods.
- b. Eight limbs of Astang Yoga—Yama, Niyama, Prahayama, Pratyahara, Dharana, Dhyana, Samadhi, Patanjali Yoga, Sutra.

Unit-II

- a) Surya Namskar guiding Principles of Surya Namaskar
- b) Proper Techniques and Benefits and Applications of These Asans for various Purpose.
 - I. Meditative Asana- Sukh Asana, Sidha Asana, Padam Asana
 - II. Relaxative Asana- Shav Asana, Makar Asana,
 - III. Culture Asana- Bhujang Asana, Chakar Asana, Dhanur Asana, Gomuk Asana, Hal Asana, Matsya Asana, Salab Asana, Ardhamatsyendra Asana, Mayur Asana, Virkh Asana

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Unit-III

- 1. Meaning and Method of Meditations
- 2. Benefits of Meditations
 - a. Mantra Meditation
 - b. Breathing Meditation
 - c. Silent Meditation
- 3. Application of Yogic Practices in re-habilitation, Sports Physical Education Wellness- Psycho-therapy

Unit-IV

- 1. Yoga and Diet-The Yogic concept classification of foods, Tamestic foods, Rajasic foods, Sative foods
- 2. Diet and its Importance in Cure of certain disorders, Importance of Fruit and Vegetables in Diet
- 3. Spiritual Yoga (Adyatma Yoga) and Applied Yoga (Loukika Yoga)

Unit-V

- 1. Verities of Pranayama, Techniques and Benefits of Ujjai, Bhastrika, Shitli/ Sitkri and Bharamari Pranayames
- 2. Techniques of Bhadhas–Jhiva, Jalandhar, Uddiyan, Mool
- 3. Shudi Kriyas–Techniques and Effects of Jal neti, Sutra neti, Kapal Bhatti, Nauli and Vaman Dhauti

- 1. Anand, Omprarkash. Yog Dawra Kaya Kalp, Kanpur, Sewasth Sahitya Perkashan, 2001.
- 2. Aladar Kogler: Yoga for Every Athlete(Secrets of an Olympic Coach), Jaico Publishing House, Delhi,1999.
- 3. Kirak Martin: Hatha Yoga Illustrated, Human Kinetics Publication, 2004.
- 4. Kumar Amresh (Prof.): Yoga for Health and Body, Publisher by Khel Sahitya Kendra, Delhi, 2007.
- 5. Kaul H. Kumar: Aspect of Yoga, B.R, Pulishing Co-Operation New Delhi, 1994.
- 6. Leslie Kaminoff: Yoga Anatomy, Human Kinetics, USA, 2007.
- 7. Rana. Asha: Yoga and Health Promotion in Schools, Sports Publications, New Delhi, 2006.
- 8. Sarin, N., Yoga Dawara Ragoon Ka Upchhar, Khel Sahitya Kendra, 2003.
- 9. Sri, Swami Rama, Breathing, Rishikesh Sadhana Mandir Trust, 2001.
- 10. Sumukhi. Finney: The Yoga Hand Book (A Guide to in Hencing Physical Mental and Spiritual Well Being), 2003.
- 11. Swami, Ram, Yoga & Married Life, Rishikesh Sadhana Mandir Trust, 2000.

PAPER-VII: RECREATION

Time: 2 Hours Max. Marks: 50

Instructions for the Paper Setters:

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Unit-I

a. Meaning and definition of Recreation.

b. Aims, Objective and Scope of Recreation

c. Types of Recreation

Unit-II

- a. Agencies which provide Recreation in India.
- b. Recreation in India.
- c. Rural Recreation and Urban Recreation.

Unit-III

- a. Recreation Leadership
- b. Why need of Recreation leader.
- c. Duties and Qualifications of Recreation leader.
- d. Organization of Recreational activities

Unit-IV

- a. Camping
- b. Need and Function of Company.
- c. Organization of camp
- d. Types and Facilities required for camp.

Unit-V

- a. Preparation of Gardening
- b. Soil and watering.
- c. Maintenance of Garden and lawn Hobbies and their educational importance.

- Chand Shareed and Deepak Jain: Leisure and Recreation Activities, Sports Publication, 2005.
- 2. Mishra. S.C.: Leisure and Recreational Activities, Sports Publication, New Delhi, 2006.
- 3. Sharma.O.P.: Play Ground Construction and Dimension Sports Publications, New Delhi, 1997.
- 4. Shivers S. Jay: Introduction to Recreational Service Administration, Friends Publications, Delhi, 1997.
- 5. Welter .C and David Auxter: Principles and Method of Adopted Physical Education at Recreation, USA, 2001.
- 6. Zeigler Earle F.: Whatever Happened to the Good life (Recreation Quotients), Sports Education, New Delhi, 2007.