## TELANGANA STATE PUBLIC SERVICE COMMISSION :: HYDERABAD

### SCHEME OF EXAMINATION AND SYLLABUS TO THE POST OF SCHOOL ASSISTANT (PHYSICAL EDUCATION) OF TRT

**Duration**: 3 Hours

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<td>The syllabus for English shall be based on proficiency in the language, elements of language, elements of comprehension abilities standard up to Secondary Level (X Class)</td>
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SYLLABUS

PART – I GENERAL KNOWLEDGE AND CURRENT AFFAIRS (Marks: 10)

Part – II: ENGLISH (Marks: 10)

1. Parts of speech
2. Tenses
3. Types of sentences
4. Articles and prepositions
5. Degrees of Comparison
6. Direct speech and indirect speech
7. Clauses
8. Voice – Active and passive voice
9. Use of phrases
10. Comprehension of a prose passage
11. Composition
12. Vocabulary

PART – III: HISTORY, PRINCIPLES AND FOUNDATIONS OF PHYSICAL EDUCATION: (6 Marks)

Introduction: Meaning, Definition and Scope of Physical Education, Aims and Objectives of Physical Education, Importance of Physical Education in present era.

- Historical Development of Physical Education: Greece, Germany, British Period (Before 1947), Physical Education in India (After 1947), Contribution of Akhadas and Vyayamsalas, H.V.P. Mandals, Institutions / Bodies in Physical Educations and Sports: YMCA, LNIPE, NSNIS, IOA, SAI, SAF, SGF, PYKKA, RGKA, SATS, Physical Education & Sports Universities.

• **FOUNDATIONS OF PHYSICAL EDUCATION:** Philosophical foundation: Idealism, Pragmatism, Naturalism, Realism, Humanism, Existentialism and Indian Philosophy and Culture. Fitness and wellness movement in the contemporary perspectives, Sports for all and its role in the maintenance and promotion of fitness.

• **PRINCIPLES OF PHYSICAL EDUCATION:** Biological: Growth and development, Gender Difference: Physical, Physiological & Anthropometric (Sheldon and Kretchmer)

**PART – IV: ANATOMY AND PHYSIOLOGY:** (6 Marks)

• Meaning and Definition of Anatomy, Physiology and their importance in Physical Education. Structure, function and division of cell. **Tissues:** Functions and types of Tissues. Structural and functional classification of Muscles. Functional and muscles properties and functions of skeletal muscles. **Skeletal System:** Structure of bone. Axial and Appendicular Skeletal system, Types or classification of Bones and Structural and functional classification of Joints.

• **FUNDAMENTALS PHYSIOLOGY:** Types of Muscle Contractions, Posture: Meaning, Types and Importance of good posture. Fundamental concepts: Angle of Pull, All or None Law, Reciprocal Innervations.


• **Digestive system:** structure and functions of the digestive system, Process of Digestion. **Nervous system:** Organs of Nervous System, Structure and functions of Brain and Spinal cord. **Endocrine system:** Functions of glands, Pituitary, Thyroid, Parathyroid, Adrenal and Pancreas. Effects of training on cardiovascular system, Effects of training on respiratory system, Effects of training on muscular system, Fatigue and performance in sports.

**PART – V: EDUCATIONAL TECHNOLOGY AND METHODS OF TEACHING IN PHYSICAL EDUCATION:** (5 Marks)


• **TEACHING TECHNIQUES AND TEACHING AIDS:** Teaching Technique, Lecture method, Command method, Demonstration method, Imitation


- LESSON PLANNING AND TEACHING INNOVATIONS: Lesson Planning: Meaning, Type, importance of lesson plan. General, particular / specific/coaching lesson plan. Various parts of lesson plan.

PART –VI: OLYMPIC MOVEMENT: (4 Marks)


- MODERN OLYMPIC GAMES: Significance of Olympic Ideals, Olympic Rings, Olympic Flag, ceremonial flag, Olympic symbol, Olympic Protocol for member countries, queens baton, Olympic torch and protocol of modern Olympics Inaugural and valedictory functions.

- DIFFERENT OLYMPIC GAMES: Para Olympic Games, Summer Olympics, Winter Olympics, Youth Olympic Games.

- COMMITTEES OF OLYMPIC GAMES: International Olympic Committee - Structure and Functions, National Olympic committees and their role in Olympic movement, Olympic medal winners of India till to date.

PART – VII: KINESIOLOGY AND BIOMECHANICS: (4 Marks)


- KINEMATICS AND KINETICS OF HUMAN MOVEMENT: Linear Kinematics: Distance and Displacement, speed and velocity, Acceleration.

PART – VIII: HEALTH EDUCATION AND ENVIRONMENTAL STUDIES: (5 Marks)


- ENVIRONMENTAL SCIENCE: Definition, Scope, Need and Importance of environmental studies, Concept of environmental education. Celebration of various days in relation with environment. Swatch Bharat programme. Pollution of Plastic bags / covers, Role of school in environmental conservation and sustainable development. Types of pollution- Air Pollution, Water Pollution, Soil Pollution, Noise Pollution & Thermal Pollution.

PART – IX: MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION: (4 Marks)


- CLASSIFICATION AND ADMINISTRATION OF TEST: Classification of Tests, Administration of test: Pre, During and post test, Methods of Scoring test.

- PHYSICAL FITNESS TESTS: AAHPER youth fitness test, JCR test, Cooper’s 12 minute run/ walk test, Harward Step test, Indiana Motor Fitness Test, Barrow motor ability test.

- SPORTS SKILL TESTS: Lockhart and McPherson badminton test, Johnson basketball test, McDonald soccer test, Russell - Lange Volleyball test, Schmithals French Field Hockey test.
PART – X: RECREATION AND LEISURE MANAGEMENT: (3 Marks)

- RECREATION AND PLAY: Theories of Recreation, Theories of Play, Therapeutic Recreation, Therapeutic use of activity, Recreation for the life, Role of recreation and leisure on the human development.
- TYPES OF RECREATIONAL ACTIVITIES: Indoor, Outdoor games, Music, Dance, Picnics and Excursions.

PART – XI: SPORTS TRAINING: (5 Marks)

  **Methods of Sports Training:** Continuous training, Interval training, Repetition training, Fartlek training, Resistance training, Circuit training, Plyometric training. Warm-up and warm-down, **Athletic diet:** Pre competition, during competition and post competition.
- Training Components, Meaning & Definition and their development methods: SPEED, STRENGTH, ENDURANCE, CO-ORDINATION AND FLEXIBILITY.
- Training program and planning: Periodization – Meaning, Aims and types of Periodization: Preparatory, Competition, Transitional. **Planning:** Training session, Talent Identification and Development.

PART – XII: CONCEPTS OF WELLNESS MANAGEMENT :( 4 Marks)

- EXERCISE AND WELLNESS: Physical wellness, exercise and physical health of different systems of human body, lifestyle diseases in relation to inactivity, Nutrition and exercise to physical wellness.
- STRESS MANAGEMENT: Stress : Definition of Stress, Stress and Emotional health, Stress and physical health- Mechanism of stress and related degenerative diseases- Inter dependence of Spiritual wellness, Social wellness and Emotional wellness- Stress management techniques.

PART – XIII: SPORTS PSYCHOLOGY AND SOCIOLOGY: (4 Marks)


Relation between Social Sciences & Physical Education: Meaning, Definition and Importance of Sociology, Orthodoxy, customs, culture, effects of culture on people life style. Tradition Festivals and sports. Socialization through Physical Education their role in promoting Physical Education and participation of both the men and women, Social integration through physical education.

Different methods of studying: Observation / Inspection method, Questionnaire method and Interview method.

PART – XIV: SPORTS MEDICINE, PHYSIOTHERAPY AND REHABILITATION: (5 Marks)


Physiotherapy: Definition: Guiding principles of physiotherapy, Importance of physiotherapy. Treatment Modalities: Electrotherapy, infrared rays, Ultraviolet rays, short wave diathermy, ultra sound.
• **Hydrotherapy and Massage:** Hydrotherapy: Meaning and Methods, Criotherapy, Thermo therapy, Contrast Bath, Whirlpool Bath, Steam Bath, Sauna Bath, Hot Water Fomentation. **Massage:** Meaning and importance of massage, Indications and contraindications of massage. Types of Manipulation, Physiological effects of Massage.

• **Therapeutic Exercise:** Definition, Principles and Importance of Therapeutic Exercises. Classification of Therapeutic exercise: Passive Movements (Relaxed, Forced and passive stretching) active movements (concentric, Eccentric and static). Free Mobility Exercise for Shoulder, Wrist, Fingers, Hip, Ankle, Foot joints and Neck exercises.

**PART – XV: SPORTS MANAGEMENT:** (4 Marks)

• **CONCEPT OF MANAGEMENT:** Meaning, Definition, Scope, concept and importance of Sports Management. **Functions of management:** Planning, organising, staffing, directing and controlling.

• **LEADERSHIP:** Meaning, Definition & Elements of Good leadership. Leadership styles, methods. **Forms of Leadership:** Autocratic, Laissez-faire, Democratic, Benevolent and Dictator. Qualities of administrative leader, Preparation of administrative leader & Effects of Good Leadership on Organizational performance.

• **FINANCIAL MANAGEMENT:** Financial management in Physical Education & sports in schools, Colleges and Universities. Criteria of good budget, Steps of Budget making. Model budget for a school. Procedures for purchases and constructions. Records and Registers.

• **SPORTS MANAGEMENT:** Sports Management in Schools, colleges and Universities. Planning, Directing and Controlling school, college and university sports programmes. Establishing a Reporting system, Evaluation, rewards and punishment system. **Event management:** Organisation of major sports event.

**PART – XVI CONCEPTS OF YOGA:** (5 Marks)

• **Introduction:** Meaning, Definition & Scope of Yoga, Aims, Objectives and functions of Yoga, Yoga practices in Upanishads and yoga sutra, Modern Trends in Yoga, Place and importance of Yoga in Physical Education and Sports.


• **Yoga Education:** Yoga Education for Youth Empowerment and human resource development. Difference between yogic practices and physical exercises, Yoga education centers in India and abroad, Competitions in Yoga Asanas.

**PART – XVII: OFFICIATING AND COACHING:** (12 Marks)

- **Introduction of Officiating and coaching:** Definition of officiating and coaching, Importance and principles of officiating, Relationship of Official and Coach with the Management, players and spectators, Measures of improving the standards of officiating and coaching.
- **Coach as a Mentor:** Duties of coach in general, pre, during and post game. Philosophy of coaching, responsibilities of a coach on and off the field, Psychology of coach in competition and coaching.
- **Duties of Official:** Duties of official in general, pre, during and post game in (Hockey, Football, Handball, Volleyball, Basketball, Table Tennis, Kabaddi, Kho-Kho, Throwball, Lawn Tennis, Badminton, Ball Badminton, Cricket, Softball and Tennikoit. Mechanism of officiating, position, Signals and movement, Ethics of officiating.
- **Qualities and Qualifications of Coach and Official:** Qualities and qualifications of good coach and good official, Layout of courts / fields and Rules of games, Layout of standard Track & Field and Rules, Eligibility rules of Inter schools and Intercollegiate tournaments.

**PART – XVIII: RESEARCH AND STATISTICS IN PHYSICAL EDUCATION** (4 Marks)

- **Introduction to Research:** Definition of Research, Need and importance of Research in Physical Education and Sports. Classification of Research, Meaning of Research Problem, Location and criteria of Selection of Problem, Formulation of a Research Problem, Limitations and Delimitations.
- **Methods of Research:** Various methods of Research, Need for surveying related literature, Literature Sources, Research Proposal.