


TEACHING METHODOLOGY

1. The Nature & Scope of Science: A brief introduction of Oriental and Western Scientific Systems, Interpretation of Science, Substantive and Syntactic Structure of Science
2. Aims and Values of Teaching Biological Sciences: Aims of teaching Biological sciences, Values of teaching Biological sciences
3. Objectives of Teaching Biological Sciences: Importance of Objectives of Teaching Biological Sciences, Bloom’s Taxonomy of Educational Objectives and limitations, Writing Instructional Objectives, Measuring and Spelling apparatus
6. Science Laboratories: Importance of Practical work in Biological Sciences, Planning Science Laboratory, Procurement, Care and Maintenance of Laboratory Equipment, Maintenance of different Registers, Safety and First aid, Development of improvised apparatus
7. Science Curriculum: Principles of Curriculum Construction, Defects in the existing Science Curriculum, Evaluation of the Science Curriculum, Correlation of Biological Sciences with other School Subjects, Qualities of a good Science Teacher, Roles and responsibilities of the Science Teacher
8. Biological Science Teacher: Qualities of a good Biological Sciences Teacher, Roles and responsibilities of the Science Teacher

ENGLISH

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

HISTORY, PRINCIPLES AND FOUNDATIONS OF PHYSICAL EDUCATION

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 Alkadas and Vavunia sales, V.P. Mandals, Institutions / Bodies in Physical Educations and Sports: YMCA, LNIFE, NSNS, JOA, SALSAT, SGP, PYKKA, RGKA, SART, Physical Education & Sports Universities.

Policies, Schemes, Awards: Bharata Ratna, Padmashri, Padmavibhushan, Padmavibhushan, Arjuna, Dr. Dronacharya, Rajiv KHEL Ratna, Ekalavya, Bansai Laxmi, Abhimanya, Toophies’ Cups in Physical Education and Sports at State/National level

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.

ANATOMY AND PHYSIOLOGY


Fundamentals Physiology: Types of Muscle Contractions, Posture, Meaning, Types and Importance of good posture. Fundamental concepts: Angle of Pull, All or None Law, Reciprocal Interervations.


EDUCATIONAL TECHNOLOGY AND METHODS OF TEACHING IN PHYSICAL EDUCATION


Teaching Aids: Meaning and Importance of teaching aids. Types of Teaching aids: Audio, Visual, Audio - visual aids, Chalk board, Digital boards, Pin boards, Charts, Slide projector, Motion paper.


OLYMPIC MOVEMENT


Modern Olympic Games: Significance of Olympic ideals and Olympic Body, 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 date.

KINESIOLOGY AND BIOMECHANICS


Newton’s Laws of Motion and their application in sports. Projectile: Factors influencing projectile trajectory.


HEALTH EDUCATION AND ENVIRONMENTAL STUDIES


Health Problems in India: Communicable diseases: Chick scrope, Measles, Mumps, Influenza, Whooping cough, Typhoid, Malaria, Swine flu, Dengue and AIDS.


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.

MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION


Classification and Administration of Test: Classification of Test, Administration of test.

Physical Fitness Tests: AAIPEP youth fitness test, JCR test, Cooper’s 12 minute run test, Harvard Step test, CMK Motor Fitness Test, Barrow motor ability test.


TRT- School Assistant Syllabus

Cont... 8 Page