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SYLLABUS FOR WRITTEN TEST TO B.Sc.(PE,HE&S) COURSE 2019-20

A. CBSC CLASS XII 2018-19 Physical Education Syllabus

Unit I Planning in Sports

- Meaning & Objectives Of Planning
- Various Committees & its Responsibilities (pre; during & post)
- Tournament Knock-Out, League Or Round Robin & Combination
- Procedure To Draw Fixtures Knock-Out (Bye & Seeding) & League (Staircase & Cyclic)
- Intramural & Extramural Meaning, Objectives & Its Significance
- Specific Sports Programme (Sports Day, Health Run, Run For Fun, Run For Specific Cause & Run For Unity)

Unit II Sports & Nutrition

- Balanced Diet & Nutrition: Macro & Micro Nutrients
- Nutritive & Non-Nutritive Components Of Diet
- Eating For Weight Control A Healthy Weight, The Pitfalls Of Dieting, Food Intolerance & Food Myths
- Sports nutrition & its effect on performance (fluid & meal intake, pre, during & post competition)
- Food supplement for children

Unit III Yoga & Lifestyle

- Asanas as preventive measures
- Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana
- Diabetes: Procedure, Benefits & contraindications for Bhujangasana, Paschimottasana, Pavan Muktasana, Ardh Matsyendrasana
- Asthema: Procedure, Benefits & contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottasana, Matsyasana
- Hypertension: Tadasana, Vairasana, Pavan Muktasana, Ardha Chakrasana, Bhujangasana, Sharasana
- Back Pain: Tadasana, Ardh Matsyendrasana, Vakrasana, Shalabhasana, Bhujangasana

Unit IV Physical Education & Sports for CWSN (Children With Special Needs - Divyang)

- Concept of Disability & Disorder
- Types of Disability, its causes & nature (cognitive disability, intellectual disability, physical disability)
- Types of Disorder, its cause & nature (ADHD, SPD, ASD, ODD, OCD)
- Disability Etiquettes
- Advantage of Physical Activities for children with special needs
- Strategies to make Physical Activities assessable for children with special need.

Unit V Children & Sports

- . Motor development & factors affecting it
- Exercise Guidelines at different stages of growth & Development
- Advantages & disadvantages of weight training
- Concept & advantages of Correct Posture
- Causes of Bad Posture
- Common Postural Deformities Knock Knee; Flat Foot; Round Shoulders; Lordosis, Kyphosis, Bow Legs and Scolioses
- Corrective Measures for Postural Deformities

Unit VI Women & Sports

- Sports participation of women in India
- Special consideration (Menarch & Menstural Disfunction)
- Female Athletes Triad (Oestoperosis, Amenoria, Eating Disorders)
- Psychological aspects of women athlete
- Sociological aspects of sports participate

Unit VII Test & Measurement in Sports

- Computation of Fat Percentage
 - o Slaughter Lohman Children Skinfold Formula:
 - Triceps & Calf Skinfold (Male 6 to 17 yrs % body fat = (0.735 X sum of skinfold) + 1.0
 - (Female 6 to 17 yrs % body fat = (0.610 X sum of skinfold) + 5.0
 Measurement of Muscular Strength Kraus Weber Test
- Motor Fitness Test-AAPHER

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- General Motor Fitness-Barrow three item general motor ability (Standing Broad Jump, Zig Zag Run, Medicine Ball Put For Boys: 03 Kg & For Girls: 01 Kg)
- Measurement of Cardio Vascular Fitness-Harvard Step Test/Rockport Test -

Computation of Fitness Index:

Duration of the Exercise in Seconds x 100

5.5 x Pulse count of 1-1.5 Min after Exercise

- Rikli & Jones Senior Citizen Fitness Test
 - 1. Chair Stand Test for lower body strength
 - 2. Arm Curl Test for upper body strength
 - 3. Chair Sit & Reach Test for lower body flexibility
 - 4. Back Scratch Test for upper body flexibility
 - 5. Eight Foot Up & Go Test for agility
 - 6. Six Minute Walk Test for Aerobic Endurance

Unit VIII Physiology & Sports

- Gender differences in physical & physiological parameters.
- Physiological factor determining component of Physical Fitness
- Effect of exercise on Cardio Vascular System
- Effect of exercise on Respiratory System
- Effect of exercise on Muscular System
- Physiological changes due to ageing
- Role of physical activity maintaining functional fitness in aged population

Unit IX Sports Medicine

- Concept, Aims & Scope of Sports Medicine
- Sports injuries: Classification, Causes & Prevention
- First Aid Aims & Objectives
- Management of Injuries:

Soft Tissue Injuries:

(Abrasion, Contusion, Laceration, Incision, Sprain & Strain)

Bone & Joint Injuries:

(Dislocation, Fractures: Stress Fracture, Green Stick, Communated, Transverse Oblique & Impacted)

Unit X Kinesiology, Biomechanics & Sports

- Introduction to Axes & Planes
- Types of movements (Flexion, Extension, Adbuction & Adduction)
- Major Muscles involved in running, jumping & throwing
- Newton's Law of Motion & its application in sports
- Projectile & factors affecting Projectile Trajectory
- Friction & Sports

Unit XI Psychology & Sports

- Understanding Stress & Coping Strategies (Problem Focussed & Emotional Focussed)
- Personality; its definition & types Trait & Types (Sheldon & Jung Classification) & Big Five Theory
- Motivation, its type & techniques
- Exercise Adherence; Reasons to Exercise, Benefits of Exercise
- Strategies for Enhancing Adherence to Exercise
- Meaning, Concept & Types of Aggressions in Sports

Unit XII Training in Sports

- Strength Definition, types & methods of improving Strength Isometric, Isotonic & Isokinetic
- Endurance Definition, types & methods to develop Endurance-Continuous Training, Interval Training & Fartlek Training
- Speed Definition, types & methods to develop Speed Acceleration Run & Pace Run

Flexibility - Definition, types & methods to improve flexibility

- Coordinative Abilities Definition & types
- Circuit Training Introduction & its importance

Unit XIII General Knowledge (National & International)

General knowledge on Sports Events, Sports persons, Awards & Honours, Tournament & Trophies, Sports Personalities, Sports Administrators, Sports Federations (National & International), Sports Policies, Sports Abbreviations, Rules of games & Sports, Sports Equipments, Sports Terminology, Sports Infrastructure & stadia measurement of field & Court of various sports/games sports, technology.