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KAKATIYA UNIVERSITY, WARANGAL, (AP)
Ph.D Entrance Test -2013

PHYSICAL EDUCATION
SYLLABUS

Unit -I: Sports Bio-mechanics

Meaning, Scope, Need for Bio-Mechanics in sports- Equilibrium, Motion, Force, Levers, Impact and Elasticity, Friction, Kinetic Energy and Potential Energy - Application of Mechanical principles to various techniques in sports

Exercise Physiology

Skeletal Muscles - Structure and Function - Cardio respiratory and Aerobic power - Neuro-Muscular junction and coordination of muscular activity - Physiological aspect of Exercise and Sports, Altitude and temperature regulation.

Unit -II: Sports Psychology

Meaning, Definitions scope, need and development of Psychology in sports - personality -types of personality - well built sports personality - Emotional states Psychological variables aggression - motivation - Anxiety, Arousal and activation and stress - Reasons for emotions and control of emotions in sports.

Applied Kinesiology

Introduction to Kinesiology - History and Development of Kinesiology - Application to sports - Axis and planes - Types of muscles Muscular attachments and action - Origin, Insertion, Actions and leverage of major muscle groups.

Unit -III: Research methodology in Physical Education

Research - Meaning, Definition and Classification: Need and importance - Research problem - Location and criteria in selection the problem -Research proposal - Formulation of Hypothesis - review of related literature, methods of research - Historical method -Experimental Design, sampling theory - methods of sampling - research report - Mechanics of writing the research report.

Statistics in Physical Education

Meaning and Basic concepts of statistics - measures of central tendency and measures of variability - Normal curve and Elementary Graphical methods. Correlation, Reliability and Tests of significance.

Tests, Measurement and Evaluation in Physical Education

Measurement and Evaluation - meaning, Need, Objectives selection and construction of tests - measurement of Strength Physical Fitness and Organic functions - Motor ability and Motor Educability and Postural Test - skill tests of various Games.

Unit IV: Supervision and Curriculum Design in Physical Education

Supervision - Techniques of supervision and qualities of supervisor - Curriculum Planning -Curriculum Design - Basic principles of curriculum development in Physical Education.

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Ph.D. – Entrance Examination
Physical Education
Modal Question Paper

Time: 3 Hours

Max. Marks: 100

The question paper consists of 100 multiple choice questions covering the entire syllabus.
Each question carries one (1) mark.

- 1 'ANATOMY' deals with the study of
 - a) Functions of the human body
 - b) Structure of the human body
 - c) Movement of the human body
 - d) Human behaviour

- 2 The classification of body types as Endomorphs, Mesomorphs and Ectomorphs is given by
 - a) Kretchmer
 - b) Sheldon
 - c) Plato
 - d) Aristotle

- 3 Which one of the following is not a criteria of a good test?
 - a) Objectivity
 - b) Subjectivity
 - c) Reliability
 - d) Validity