SCHEME OF EXAMINATIONS FOR M.PHIL PROGRAMME IN PHYSICAL EDUCATION (SESSION 2016-17)

Semester I

Paper	Nomenclature	Written Theory	Internal Max	Total Marks
			Marks	
Ι	Research Methodology	80	20	100
II	Statistics in Physical	80	20	100
	Education			
III	Computer Applications in			
	physical Education	80	20	100
	Total	240	60	300

Semester II

Paper	Nomenclature	Written Theory	Internal Max Marks	Total Marks
IV	Measurement Evaluation in Physical Education.	80	20	100
V	Opt.: a)Sports Bio-mechanics b)Sports Psychology c)Sports Managment	80	20	100
	Total	160	40	200

Semester III

Paper	Nomenclature	Evaluation	Viva-voce	Total Marks
IV	Dissertation	150	50	200

Grand Total:-	(I+II+III) 300+200+200=700
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INTERNAL ASSESSMENT: Each student will be required to appear in the Internal Assessment Test which will be taken by the concerned teacher. The test will be held 10 marks in each semester of each paper. In addition to it, the students will be required to submit one assignment in each paper which will be evaluated by the concerned teachers. Each assignment will carry 5 marks. 5 marks will be for attendance.

DISSERTATION: M0061imum m arks 200 I(150 for evaluation of dissertation and 50for Viva-voce). The student will have to submit a dissertation in partial fulfillment of the degree. The topics for dissertation will be approved by the D.C. for which the students will have to submit a research proposal in the 2nd Sem. In the form of a synopsis and make a power point presentation of the proposal.

The student will be required to write a dissertation on a selected topic in the third semester. The dissertation may include the results of original research empirical or documentary or a fresh interpretation of existing knowledge of data and such other forms as may be determined by the D.C. The student will also be required to submit an abstract of his/her research work in about 300 words alongwith the dissertation.

Every student shall be required to submit monthly report to the supervisor. The supervisor of the student will give his/her assessment about the progress of the candidate in the office of the Department.

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VIVA-VOCE: The scholar will undergo a viva-voce examination on his/her dissertation. This will be evaluated by the external examiner, HOD and Research Supervisor.

(SEMESTER-1st)

Paper-I <u>RESEARCH METHODOLOGY</u>

Time - 3 hours

Max. Marks = 100 External marks: 80 Internal marks: 20

NOTE:-

(a) For paper setter

- 1. Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- 2. Question No. 1 will be compulsory and will carry 16 marks. It will comprise of 8 short answer type questions of 2 marks each to be selected from the entire syllabus.
- 3. Two long answer type questions will be set from each of four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 16 marks each.

(b) for candidates

- 1. Attempt five questions in all, selecting atleast one question from each unit.
 - Question No. 1 is compulsory. All questions carry equal marks

UNIT –I

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RESEARCH

- Meaning, Need, Nature and scope of Research in Physical Education
- Characteristics of a good research
- Fundamental, applied and action research

REVIEW OF LITERATURE

- Importance, location of the research material index, books, bibliography, reviews and abstract, critical literature and allied literature
- Steps in reviewing literature
- Not taking, scanning and sbimming,

UNIT-II RESEARCH PROBLEM

- Identification of area for research in Physical Education
- Selection of problem
- Delimitation and operationalization of variables

HYPOTHESIS

- Meaning and Importance
- Characteristics of good hypothesis
- Sources (iv) Types of hypothesis

UNIT-III

METHODS OF RESEARCH

- Historical
- Descriptive
- Experimental
- Philosophical

RESEARCH DESIGN

- Meaning of research design and its importance
 - Type of research design

UNIT-IV

- **SAMPLING**
 - Concept of population and sample
 - Method of sampling : Probability and non-probability

TOOLS & TECHNIQUES

Characteristics of a good research tools

- Questionnaire, Interview, Observation, Psychological Test, Sociometric Techniques, Attitude Scale, Inventories

REPORT WRITING

- Developing research proposal (synopsis)
- Characteristics of a good research report
- General format of a research report

REFERENCE

- 1. Aggarwal, Y.P. (1998) The Science of Educational Research, A Source book, Nirmal, Kurukshetra.
- 2. Garrett, H.E. (1973), Statistics in Psychology and Education Vakils, Feffer and Simon, Bombay.
- 3. Good: C.V. and Douglas, E.Scates 1954, Methods in Social Research, Mcgraw Hill, New York.
- 4. Kou, Lokesh (1988), Methodology of Research, Vikas, New Delhi.
- 5. Mouly, A.J. (1963), The Science of Educational Research Eurosia, New Delhi.

Paper-II STATISTICS IN PHYSICAL EDUCATION

Time - 3 hours

Max. Marks = 100 External marks: 80 Internal marks: 20

NOTE:-

(a) For paper setter

- 1. Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- 2. Question No. 1 will be compulsory and will carry 16 marks. It will comprise of 8 short answer type questions of 2 marks each to be selected from the entire syllabus.
- 3. Two long answer type questions will be set from each of four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 16 marks each.

(b) for candidates

 Attempt five questions in all, selecting atleast one question from each unit. Question No. 1 is compulsory. All questions carry equal marks UNIT-I

- STATISTICS
 - Meaning and importance in Physical Education

DATA

Method of organizing data through frequency distribution

MEASURE OF CENTRAL TENDENCY (meaning and computation)

Mean, Median, Mode.

UNIT-II

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MEASURES OF DISPERSION (Meaning & Computation)

- Range
- Quartile Deviation
- Average Deviation
- Standard Deviation

MEASURES OF RELATIVE POSITION

- Meaning & Computation
- Percentile
- Percentile rank

UNIT-III

NORMAL PROBABILITY CURVE

- Meaning
- Characteristics
- Application
- Skewness and Kurtosis

CORRELALTION

- (Meaning uses and computation)
- Product Moment Correlation Rank Difference Correlation (a) Partial and Multiple (b) Phi and Tetrachoric

UNIT-IV

ANALYSIS OF VARIANCE

Meaning, Assumption and Computation (a) One way Anova (b) Two way Anova

CHI-SQUARE

tests of equality and Independence (Meaning, Assumption and Computation)

T <u>-TEST</u>:

Significance of difference between two means (independence samples)

REFERENCE

- 1.
- Siegel, S. (1986), Non-parametric Statistic, Mcgraw Hill, New York. Van Dalen, D.B., (1992), Understanding Educational Research, McGraw Hill, New York. Garrett, H.E. (1973), Statistics in Psychology and Education Vakils, Feffer and Simon, 2.
- 3. Bombay

PAPER-III Computer Applications

NOTE:-

(a) For paper setter

- 1. Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- 2. Question No. 1 will be compulsory and will carry 16 marks. It will comprise of 8 short answer type questions of 2 marks each to be selected from the entire syllabus.
- 3. Two long answer type questions will be set from each of four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 16 marks each.

(b) for candidates

- 1. Attempt five questions in all, selecting atleast one question from each unit.
- Question No. 1 is compulsory. All questions carry equal marks

UNIT-I

- Definition of Computer, Block diagram of computers, classification of computers, role of computer in Physical Education.
 - Components of Computer
 - Hardware {CPU, Monitor, Keyboard
 - etc.) Software (DOS, Basic, Colbol}

UNIT-II

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- What is an OS? Functions of an OS?
- OS as a resource manager, Types of OS, Features of OS, Concepts of warm & Cold booting, swapping, spooling and buffering.

UNIT-III

MS-office and date Analysis Software

- Word-Introduction of word processor, creating & saving documents.
- Excel- Introduction to excel, need of spreadsheet, creating, opening & saving workbook, editing worksheet, using links, applying different views, Types of functions.
- Power Point-Introduction of slides, speaker notes, media clips, graphs, picture, web pages, adding different kind of slides, working with Power Point, inserting text objects, formatting Text.
- Introduction to Data analysis software SPSS & application of t-test, Chi square and Anova through SPSS Soft-ware.

UNIT-IV

- Introduction
- Evaluating internet resources: Authority, Accuracy and objectivity.
- Brief note on e-books and vitual library.
- UGC-infonet, INFLIBNET and ERNET.
- What is Plagiarism and how to avoid it?

(SEMESTER-2nd)

Paper- iv Measurement Evaluation in Physical Education

Max. Marks: 80 Int. Marks: 20 Time: 3 hours

NOTE:-

(a) For paper setter

- 1. Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- 2. Question No. 1 will be compulsory and will carry 16 marks. It will comprise of 8 short answer type questions of 2 marks each to be selected from the entire syllabus.
- 3. Two long answer type questions will be set from each of four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 16 marks each.

(b) for candidates

- 1. Attempt five questions in all, selecting atleast one question from each unit.
- Question No. 1 is compulsory. All questions carry equal marks

UNIT-I

Measurement and Evaluation

- Measurement (Meaning and its levels)
 - Evaluation
 - i. Meaning
 - ii. Need and Importance
 - iii. Characteristics
 - iv. Formative and Summative Evaluation
 - v. External and Internal Evaluation (Advantages and disadvantages)
 - Inter relationship between measurement and evaluation

UNIT-II

- Test Meaning & Importance
- Test for strength, Endurance, speed, flexibility & agility
- Administration of various fitness test
- **Agility test:** (a) Zigzag test (ii) Burpee test
- Mobility & Balance: Sit & Reach test (b) Trunk flexion test (c) Hip flexion test
- **Strength:** Chin-up test (b) Grip Strength test
- **Speed & Power:** 60 meter speed test (b) 400 meter sprint test

UNIT-III

CHARACTERISTICS OF A GOOD MEASURING INSTRUMENT

- Reliability (Concept and Procedures of Estimation)
- Validity (concept and Procedures of Estimation)
- Norms
- Usability

UNIT-IV

TEST STANDARIZATION

- Norm Referenced and Criteria Referenced
- Test, Standard Scores, T-scores
- Construction and standardization of Test
- Interpretation of Test Scores and Methods of Feedback to students.

References:

1. Measurement & Evaluation in Physical Education and Exercise Science – by Alan C. Lacy, Benjomin Cummings 2010

Paper-IV (Optional-a) BIO-MECHANICS IN PHYSICAL EDUCATION & SPORTS

Max. Marks: 80 Int. Marks: 20 Time: 3 hours

NOTE:-

(a) For paper setter

- 1. Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- 2. Question No. 1 will be compulsory and will carry 16 marks. It will comprise of 8 short answer type questions of 2 marks each to be selected from the entire syllabus.
- 3. Two long answer type questions will be set from each of four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 16 marks each.

(b) for candidates

1. Attempt five questions in all, selecting atleast one question from each unit. Question No. 1 is compulsory. All questions carry equal marks.

UNIT-I

- Meaning Definition: functions and importance of Biomechanics in Phy. Edu and Sports
- Forms of Motion: Translatory: Rotatory and General
- Linear Kinematies: Speed and Velocity: acceleration; Acceleration due to Gravity;
- Vector and Sealer: Resultant Vector; Vector Components; Projectile Motion. Kinematics

UNIT-II

- Angular displacement and Angular distance; Torque; Angular Intertia; Angular Momentum
- Meaning of Force; Classifying Forces (Internal & External) Resoution of Forces: Static-Equilibrium
- Newtons Laws of Motion: Law of Interia: Law of acceleration: Law of Action and Reactions
 - Definition of Levers: Classes of lever and application of levers: Advantages of Lever

UNIT-III

- Spin and its types
- Effect of spin on speed and direction on the object on surface
- Effect of spin on Speed and direction of the object in air
- The magnus Effect
- Drag: Skin Friction; Profile Drag: Effects of Stream lining on Drag
- Terminal Velocity
- Fluid Mechanics: Buoyout Force: relative Motion: fluid Resistance

UNIT-IV

- Bio-mechanical Analysis and its types
- Qualitative Bio-mechanical Analysis to improve Technique
- Analysis of Sports Techniques
- Track: i) Running Basic consideration
 - ii) Sprint (Start & Running): Leg action, (Support, Drive and Recovery Phases)iii) High Hurdling: Approach; take off; Flight; between hurdles
- Field (Jumping) (i) High Hump (Fosbury Flop): Run up; take off; Bar clearance and landing
 - (ii) Long Jump (Hang style) Run up: take off; Flight and Landing
 - Field (Throws) (i) Shotput (O'Brain-style) Initial stance; Glide; Delivery and Reverse (ii) Javelin: Grip: Carry: Run; withdrawal: Cross Step and Reverse

Paper-IV (Option-b) SPORTS PSYCHOLOGY

Max. Marks: 80 Int. Marks: 20 Time: 3 hours

NOTE:-

(a) For paper setter

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- 2. Question No. 1 will be compulsory and will carry 16 marks. It will comprise of 8 short answer type questions of 2 marks each to be selected from the entire syllabus.
- 3. Two long answer type questions will be set from each of four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 16 marks each.

(b) for candidates

1. Attempt five questions in all, selecting atleast one question from each unit. Question No. 1 is compulsory. All questions carry equal marks

UNIT-I INTROUDCTION OF SPORTS PSYCHOLOGY

Definition of Psychology and Sports Psychology, Scope of sports Psychology, Methods and Utility of Psychology in Physical & Sports.

UNIT-II TRANSFER OF TRAINING

Various types of transfer of training. Different theories, importance of transfer of training Conditions of motor skill learning Competition as a social necessity Competition and Motivation Competition and Co-operation and its significance in sports.

UNIT-III PSYCHING UP TECHNIQUES FOR SPORTS PERFORMANCE

Goal Setting

Pap talks

Bulletin Boards, Mass Media, Fan Support Pre-competitive work out, Post competition evaluation Guidelines for improving sports performance.

UNIT-IV INDIVIDUAL DIFFERENCES & ADJUSTMENT

Various causes, Different Types, The role of a Coach/Physical Education teacher to minimize the differences Various level of adjustment, Home Family, School Environments and adjustment in sports competition

ASSIGNMENTS

Sociometric test, Personality Test (16 P.F.) Sports Competition anxiety test. H.S. Ashtnana's adjustments inventory.

REFERENCE

- 1. Bhatia, Hans Raj, Test Book of Education Psychology, Delhi: Macmillan, 2003.
- 2. Rouben.B.Frost : Psychological concepts applied to Physical Education and Coaching, Edition, Wesley Publishing Co.London.
- 3. Dridge & Hung : Psychological foundations of Education. Harper and Row Publishers.

- 4. Jain, D., Introduction to Psychology, New Delhi: K.S.K, 2003.
- 5. Kamlesh, M.L.Education Sports Psychology, New Delhi, Friends Pub., 2006.
- 6. Kamlesh,M.L.,Key Ideas in Sport Psychology, New Delhi, Friends Pub.2007 Kutty, S.K Foundations of Sports & Exercise Psychology, New Delhi: Sports, 2004.
- 7. Robert.S.Weinberg Foundations of Sports and Exercise Psychology (Third Edition) Daniel Gould
- 8. Jack H.Liewellyn Psychology of Coaching : Theory and Application (Surjeet Publisher New Judy A. Blucker Delhi)
- 9. Jashwant Kaur Virk Psychology of Teaching and Learning (Twenty First Century Publication Pardeep Kumar Sahu Patiala.2008)

PAPER-IV (Option-c)

SPORTS MANAGEMENT

Max. Marks: 80 Int. Marks: 20 Time: 3 hours

NOTE:-

(a) For paper setter

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- 2. Question No. 1 will be compulsory and will carry 16 marks. It will comprise of 8 short answer type questions of 2 marks each to be selected from the entire syllabus.
- 3. Two long answer type questions will be set from each of four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 16 marks each.

(b) for candidates

- 1. Attempt five questions in all, selecting atleast one question from each unit.
 - Question No. 1 is compulsory. All questions carry equal marks

UNIT-I

- a. Scope and Concept of Sports Management, (Element or Function)
- b. Management, its advantages, organizing in Sports, staffing controlling in sports, Importance and Philosophy of Sports Management system and profession.
- c. Scope and concept of Administration, relation between administration Sports Management, Importance of Sports administration, planning, organization, resource mobilization, Principles of Planning, Pol standard practices.

UNIT-II

d. Organizational elements, rules and regulations, procedure and attributes of an organization, delegation of authority and division of power, Destination characteristics of delegation, organization dynamics, open and close advantages and disadvantage, type of organizations, line organizational structure, their functional pattern, manpower plan features of human resources, controlling and development organizational structures and practices.

UNIT-III

- e. Designation, meaning of leadership, its personality traits, leadership managerial grid, qualities of leader, leadership and managerial behavior approach, co-ordination: its definition, Principle and techniques co-ordination. Motivation for sports, enhancement of motivation, motivation in sports organizations and participation, motivator in sports, organizations and participation, incentive as motivator sports.
- f. Direct and Indirect public relation, importance of public relation media, press relations, qualities of good PRO, correspondence and public relation establishment, community involvement and relations.

UNIT-IV FINANCE AND BUDGET FOR SPORTS

- g. Infrastructure, equipment, salaries, rewards, rising of funds, funds-drives, budget: functional budget, works expenses budget, performance budgeting, management of denial resources.
- h. Physical Education Programmers, Teaching Methods, Class Management Intramural, recreational and leisure services, planning, construct maintenance of facilities, use of computer. Inter scholastic & Inter Collegiate athletics and competitions, School Health Education.

REFERENCES

- 1. Administration of Physical Education and Athletics/Sports practices, Reubden D.Frost, Barbura Bay Lckgart, Stanlay J. Manchsal Universal Book Stall, 5 Ansari Road, New Delhi.
- 2. Sports Management, Sudhanca Shekhar Ray, Friends Pub. (India) Delhi 110089
- 3. Organization and Administration of Physical Education, S.Dher/Radhika Kamal

PRACTICAL:ONE PROJECT REPORT IS TO BE PREPARED BY THE
CANDIDATE OUT OF THE SUBJECTS/TOPICS

- 1. Organization of College/School athletic/sports tournament Report.
- 2. Preparation of School/College/Institutional budget & Management of Sports Material/Purchase and disposal of old material maintenance facilities and records.
- 3. Health Education Programmer at Institutional level.
- 4. Project Report on public relation of Sports Official and Preparation news bulletin report to be sent to the new pages/media electronic (Press)
- 5. Preparation of Physical Education Programmer for School/College viva-voce examination of the project report by the Examiner.