

Syllabus of B.Sc. Sports Science Three Year Degree Course
Scheme of examination of B.Sc. Sports Science Three year Course
B.Sc. Part I (2011-12)
Semester-1st

| Sr. No. of Paper | Name of Paper | Marks | | Time |
|------------------|---|----------|----------|---------|
| | | Internal | External | |
| I | Foundation of Phy. Edu. & Sports | 20 | 80 | 3 hours |
| II | Computer Applications | 10 | 40 | 2 hours |
| III (a) | Theory of Games** (Kabaddi, Volleyball, Judo) | 10 | 40 | 2 hours |
| III (b) | Theory of Athletics*** (Sprints, 100 mtr, 200 mtr & 5000 mtrs) | 10 | 40 | 2 hours |
| VI | Qualifying Hindi* | | | |
| | Total | 50 | 200=250 | |

- * Not included in Grand Total
 ** Games: judo, Kabaddi, Volley-ball
 *** Athletics: Sprint 100, 200 and 5000 meters

(Semester-2nd)

| Sr. No. of Paper | Name of Paper | Marks | | Time |
|------------------|--|----------|----------|---------|
| | | Internal | External | |
| I | Anatomy of Fitness | 20 | 80 | 3 hours |
| II | Computer Applications | 10 | 40 | 2 hours |
| III (a) | Theory of Games** (Badminton, baseball, Archery & Weight lifting) | 10 | 40 | 2 hours |
| III (b) | Theory of Athletics*** (Relay races and High-jump) | 10 | 40 | 2 hours |
| IV | Qualifying English* | | | |
| | Total | 50 | 200=250 | |

- * Not included in Grand Total
 ** Games: Base ball, Badminton, Archery & Weight Lifting
 *** Athletics: Relay Races, High-jumps

Practical:- Games : 50
 Athletics : 50
 Computer : 50
 Total: - :150

Grand Total: - 1st Semester + 2nd Semester + practical
 250+250+150=650

Division of internal marks

- (a) House Exams: 5
- (b) Attendance: 5 in case of only 5 mark an internal than these 5 marks will be awarded on the basis on attendance.

Division of external marks (Practical)

- (a) Note Book-10
- (b) Lesson Plan-10
- (c) Progression of skills and fault correction-15
- (d) Viva-voce=15 (covering all the games prescribed in the syllabus of that year)

Note: -similar division of marks will be applicable in athletic events in 1st year, 2nd year and 3rd year.

Note:-

1. 7 Supervisory lessons in teaching each in every games & 5 supervisory lessons each from athletics events prepared by students in their note and checked by the concerned teacher during session.
2. Lessons on the games in any one of the games listed B.Sc. 1st year course above (semester 1st and Semester 2nd).
3. Lesson on Athletics in any one of the Athletics events listed above in B.Sc. 1st year course for games and athletics (semester 1st and semester 2nd)
4. Duration of practical examination will be 3 hours per group followed by Viva-voce.
5. Practical classes for teaching the games and Athletics will be held throughout the year. However, practical examination will be held at the end of the second, fourth and sixth semester respectively.
6. Final lessons will be prepared on a separate chart for the final exams.
7. The draw for final examination (Athletic & Games) will be drawn ten days before the final exams.
8. Practical for computer will be held at the end of second semester and duration for computer practical will be 2 hours followed by viva-voce.

Note: The same guidelines will be applicable in the course of B.Sc. II and B.Sc. III also.

Scheme of Examination of B.Sc. Sports Science Three year Course
B.Sc. Part II (Semester 3rd) 2012-13

| Paper | Nomenclature of paper | Marks Theory | | Time | Practical marks |
|-------|--|--------------|----------|---------|-----------------|
| | | Internal | External | | |
| I. | Kinesiology | 20 | 80 | 3 hours | - |
| II | Theory of Games ** | 10 | 40 | 3 hours | - |
| III | Theory of Athletics *** | 10 | 40 | 2 hours | - |
| IV | Gymnastic and other Activities | - | - | - | |
| V | Environmental Studies (Qualifying paper) | | | | |
| | Total: | 40 | 160 | - | |

Grand Total marks: 40+160=200

* Not included in Grant total

** Games, Football, Handball, Swimming, Gymnastic

*** Athletics- 400 meter, 800 meter, 10000 meter races

(Semester-4th)

| Paper | Nomenclature of paper | Marks Theory | | Time | Practical marks |
|-------|---|--------------|----------|---------|-----------------|
| | | Internal | External | | |
| VI | Physiology of Exercise | 20 | 80 | 3 hours | - |
| VII | Health Education, First-aid and safety measures | 15 | 60 | 3 hours | 25 |
| VIII | Theory of Game* | 10 | 40 | 2 hours | 50 |
| IX | Theory of Athletics** | 10 | 40 | 2 hours | 50 |
| XI | Gymnastic and other Activities | | | | 50 |
| | Total:- | 55 | 220 | | 175 |

| | |
|--|-------------------|
| Practical: - Game * (Table Tennis, Shooting, Wrestling) | = 50 |
| Athletics** (Hurdles, High Jump, Shotput) | = 50 |
| Health Edu. | = 25 |
| Gymnastic & Other Activities | = 50 |
| | <u>175</u> |

Grand Total:- 3rd Semester + 4th Semester + practical
200+275+175= 650

Division of internal marks

- (a) House Examinations: 05 marks
- (b) Attendance: 05 marks in case of only 5 marks in internal then these 5 marks will be awarded on the basis of attendance.

Division of external marks (Practical)

- (a) Note Book: 10 marks
- (b) Lesson Plan: 10 marks
- (c) Progression of skills and fault correction: 15 marks
- (d) Viva-voce: 15 (covering all the games prescribed in the syllabus of that year)

Note: - Similar division of marks will be applicable in athletic events in 3rd & 4th semesters of B.Sc.3rd years.

Note:

1. 7 supervisory lessons in teaching each in every game & 5 supervisory lessons each from athletics events prepared by students in their note & checked by the concerned teacher during session.
2. Lessons on the games in any one of the games listed B.Sc. 2nd years course above (semester 3rd and 4th).
3. Lesson on athletics in any one of the athletics events listed above in B.Sc. 2nd year course for athletics (Semester 3rd and semester 4th).
4. Duration of practical examination will be 3 hours per group followed by viva-voce.
5. Practical classes for teaching of games and athletics will be held throughout the year. However, practical examination will be held at the end of the second, fourth and sixth semester respectively.
6. Final lesson will be prepared on a separate chart for the final examinations.
7. The draw for final examination (athletics & games, Gymnastic & other activity will be drawn 10 days before the final examinations.
8. Practical for Gymnastic and Other activity will be held at the end of 4th semester in B.Sc. 2nd year.

Note: - The same guidelines will be applicable in the course of B.Sc. III

Scheme of Examinations of B.Sc. (Sports Sc.) Part III (Semester-5th)
2013-14

| Paper | Nomenclature | Marks theory | | Time |
|-------|-----------------------|--------------|------|---------|
| | | Int. | Ext. | |
| I | Physiotherapy | 10 | 40 | 3 hours |
| II | Sports Psychology | 10 | 40 | 3 hours |
| III | Theory of Games* | 10 | 40 | 2 hours |
| IV | Theory of Athletics** | 10 | 40 | 2 hours |
| | Total | 40 | 160 | |
| | Grand total | 40+160=200 | | |

*Game: Hockey, Netball, Kho-Kho and Tennis

**Athletics: 1500 mtr. Pole-vault, Javelin Throw

(Semester 6th)

| Paper | Nomenclature | Marks theory | | Time | Practical marks |
|-------|-------------------------------|----------------|------|---------|-----------------|
| | | Int. | Ext. | | |
| I | Foundation of Sports Training | 20 | 80 | 3 hours | |
| II | Sports Sociology | 10 | 40 | 3 hours | |
| III | Theory of Games* | 10 | 40 | 2 hours | 50 |
| IV | Theory of Athletics** | 10 | 40 | 2 hours | 50 |
| V | Project Report | | | | |
| | | 50 | 200 | | 100 |
| | Grand Total: | 50+200+100=350 | | | |

Game*: Soft ball, Basket-Ball, Wrestling

Athletics**: Triple Jump, Hammer- Throw

(Grand total: 5th Semester + 6th Semester + Practical= 200+250+100=550)

Project Reports:-

Project report will be submitted by all students to the concerned department. Project Report shall be related with current problem of sports, sports Tournaments/Championship. Project report will be prepared by the candidates to be evaluated by the external examiners which will be appointed by the UG/PGBOS in Physical Education. It would be awarded with the grading system i.e. A, B, C, D and E.

A= 75% and above, B=60-74%, C=50-59%, D= 40-49% & E=below 40%

If the candidate obtains E then the candidate will have to repeat the project work.

B.Sc. (Sem 1st) 2011-12
Foundation of Physical Education

Max. marks — 80
Internal assessment -20
Time: 3 hrs

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 questions from each unit. Question No. 1 is compulsory. All questions carry equal marks.

Unit-I

Meaning & definition of physical education, aim and objective of physical education. Scope of physical education, need and importance of physical education in modern society. Relationship of physical education with general education. Leisure and physical education. Place of physical in the present system of education.

Unit-II

National programme of physical education & sports. National institution of physical education & sports - NSNIS Patiala, LNIPE Gwalior, LNCPE Trivendrum (Kerala), sports authority of India (SAI), national sports talent contest scheme, army boys sports company scheme, special area scheme, SAI training center scheme, national coaching scheme, rural sports and national.

Unit-III

History of physical education in India, division of ancient period, British period till 1947. Physical Education in India after independence, physical education in Greece, Rome, Germany, China, USA.

Indian Olympic Association, history, constitution and role of IOA. Organization and State Associations, National Games, **Aryan Games**, SAF Games, Common Wealth Games.

Unit-IV

Olympic movement and its impact in physical education and sports. Games and sports as man's cultural heritage, role of games and sports in national and international integration. Sports policy of India and Haryana, Sports awards — Bhima, Arjun award, Rajiv Gandhi Khel Rattan award, Maulana Abul Kalam Azad Trophy, Dhyan Chand life time achievement award and Dronacharya Award.

Ref.

1. Buchor, Charles A Foundation of Physical Education St. Louis: the -C.V. Mosby Company 1983.

B.Sc. (Sem. 1st) 2011-12

Computer Application

Total marks-50
Theory marks - 40
Internal marks -10
Time: 2 hrs

(a) For paper setter

1. Paper setter will set 9 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 8 marks. It will comprise of 4 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 8 marks each.

(b) for candidates

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

Unit-1

Meaning and definition of computer, characteristics of computer, and basic applications of computer.

Unit-II

Components of a Computer System, Central Processing Unit, Visual Display Unit, Keyboard.

Input and output devices, mouse, joy stick, scanner, microphone, OCR, MICR; light pen, bar code reader, digital camera, printer, speaker, plotter.

Unit-III

Concept of Memory, primary and secondary memory, RAM and ROM, units of memory - byte, kilobytes, megabytes, gigabytes.

Unit-IV

Computer languages, machine language, assembly language and high level language, role of assembler and compiler. Storage devices, floppy disc, hard disc, CD ROM and DVD.

Practical:- The practical examination will be taken from the entire syllabus given above.

Ref:-

1. Essential of computer and network Technology by Dr. N.S. Gill (Khanna Book Publications New Delhi).'
2. Fundamental of Computers by V. Rajaramars (Printice Hall - India).
3. Computer Fundamentals by B; Ram.
4. P.C. Software (MS-Excel etc.) by R.K. Taxali (Take Maegrew Hill).

B.Sc. (Sem. 1st) 2011-12

Theory of Games

Total marks - 50
Theory marks - 40
Internal marks - 10
Time: 2 hrs

Note:- (a) **For paper setter**

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) **for candidates**

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

The questions in different units given below should be based on the following games.

1. Judo
2. Kabaddi
3. Volleyball

Unit-I

1. History of games.
2. Role of Haryana's people for the development of games.
3. Duties of officials (Pre game, during the game & post game).
4. Technical officials & their duties.
5. Protective equipment used in games.

Unit-II

1. Dimension & marking of the play field/area.
2. Rules & regulations of the games mentioned above.
3. Interpretation of rules & regulations.

Unit-III

1. Fundamental of various games.
2. Offensive & defensive strategy employed in the various games.
3. Conduct of tournament & types of fixtures used in the games mentioned above.

Ref.:-

1. Wado Allen - The F.A. Guide to training and coaching.
2. Seton, D.C. Dhyton, I.A. Leibu, H.C. and Massumith, I - Basic book of sports, Englewood Cliffs. M.D. Prepfite Hall.

B.Sc. (sem. 1st) 2011-12

Theory of Athletics

Theory— 40
Internal marks — 10
Time: 2 hrs

Note:- **(a) For paper setter**

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

The questions in different units given below should be based on the following events

- (i) Sprints **100,200** meters
- (ii) 5000 meter

Unit-I

1. History of athletics in Haryana.
2. Selection of an athlete.
3. Interpretation of rules and regulations of the events mentioned above.

Unit-II

Fundamentals of various events.

1. Sprints 100-200 (Crouch start, supporting phase & releasing phase).
2. 5000 meter race.

Unit-III

1. Dimension & marking of standard track.
2. Dimension & marking of events mentioned above.
3. Equipment and their specifications used in various events given above.

Rcf.:-

1. Doherty J. Manneth~ Modern track and field, Englewood Cliffe, N..T. Prentica Hall, Ino.
2. Wado Allen - The F.A. Guide to training and coaching.
Uyenishi S.L. The Text Book of JU - Jutsu - Athletic Publications Ltd. Link House, Store Street, London, W.C.I

SEMESTER I

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Max. Marks - 90 Internā - 10

Time : 3 hrs

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8- y ? k k r j h i z u n r i k B e a f u / k k z j r n k s d g k u h d k j k a % e k g u] j k d s k v k s e k y r h t k s k h) v k s f u c l / k d j k a % e g k o h j i z k j f } o n h v k s l j n k j i w k z f l g) i j i k B ; i q r d d h ^ v u d k h y u h * e a l s g h , d & , d i z u v F k k z - p k j i z u i n s t k , a s j f t u e a l s i j h { k k f f k z } k a d k s f g l g h a i z u k a d s l f { k l r % i R ; d y x H k x 250 ' k C n k a e a) m R r j n s u s g k a A i z u i f j p k ; R e d i z d f r d s g k a A i R ; d i z u p k j v a d k a d k g k s k v k s i j k i z u v k B v a d k a d k g k s k A

9- v f l r e i z u ^ d k 0 ; & f * k [k j * d h ^ v u d k h y u h * d s 0 ; k d j . k i j v k / k k z j r g l o x k f t l d s f y , c k j g v a d f u / k k z j r g A b l d s v l r x i r c r z u h] l k ; k z] f o y k e] o k D ; d s f y , , d ' k C n] e g k o j s v k s y k d k s D r f u / k k z j r g A b l e a c k j g v f u o k ; l o L r q u " B i z u g k a A i R ; d i z u d s f y , p k j f o d Y i g k a A i R ; d i z u d s f y , p k j f o d Y i g k a A f t u e a l s , d ' k q) m R r j n s u k g k s k A

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2- M k D e h j k x l s e] M D j k e i r ; k n o] M k D c k w j k e ; k n o ! X k n - | f * k [k j] i z d k ' k u f o H k k x] d q { k s k f o ' o f o | k y ;] d q { k s k A

3- 0 ; k d j . k A

B.Sc. (Sem. 2nd) 2011-12

Anatomy & Fitness

Max. marks - 80

Internal assessment -20

Time : 3 hrs

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 questions from each unit. Question No. 1 is compulsory. All questions carry equal marks.

Unit-I

Meaning of anatomy, cell, structure, properties of living matter. The role of anatomy in physical education & sports, anatomy of bones cartilage's, Names and location and functions of bones, kinds of bones, joints and their types, tissues, organs and system of body.

Unit-II

Anatomy of muscular system, structure of muscles and their kinds. Properties of muscles. Muscle work and, fatigue, anatomy of respiratory organs, tissue and pulmonary respiration, anatomy of heart, function of heart, heart beat, stroke volume, cardiac output.

Unit-III

Anatomy of digestive organs (alimentary canal), structure and functions of excretory system, meaning of endocrine glands and structure of the following glands - pituitary glands, thyroid, parathyroid, adrenal glands.

Unit-IV

Physical — fitness:-

Definition of physical fitness components of physical fitness, benefits of physical - activity, development of physical fitness. Controlling and management of your weight, determining the right weight to you, factors influencing physical fitness.

Planning a fitness programme, identify your fitness goals. Design your programme, causes and prevention of fitness related injuries, selecting a nutritional plan for fitness.

Ref.:-

1. Introduction to anatomy & physiology - Dr. Shemsher Singh.
2. Lawrence, Thomas Gordon; Your health and Safety, Har Schiver. Alices; Powers, Courts, Braco & World, inc. Douglas F; and Vorhana Levis J. New York. 1969.
3. Bauer. W.A.V. (Editor). TODAY'S' Health Guide, American Medical Association, Revised Edition 1968.

B.Sc. (Sem. 2nd) 2011-12
Computer Application

Total marks — 50
Theory marks - 40
Internal marks 10
Time : 3 hrs

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 8 marks. It will comprise of 4 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 8 marks each.

(b) **for candidates**

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

Unit-I Software & Communication Technology, MS Power Point

- 1.1 System, utility and application software with examples.
- 1.2 Need of networking, LAN, MAN, and WAN.
- 1.3 Introduction to presentation graphics, understanding the concept of slide show, basic element of slide, different types of slide layouts, creating and saving a presentation, different views of slide, editing and formatting a slide. Adding titles, sub titiss, text, background, water mark, headers and footers, numbering slides, inserting picture from files.

Unit-I I Information Technology Tools

- 1.1 M.S. Windows (Basic concept of an operating system and its function).
- 1.2 Introduction to windows using mouse and moving icons on the screen, my computer, recycle bin, task bar, start menu and menu selection, setting system date and time, windows explorer to you files, folders and directories, creating and renaming of files and folders.
- 1.3 Basic components of windows: desktop, flame, title bar, menu bar, status bar, using right button of mouse, creating short cut.

Unit-III Basic Windows Accessories and MS Word

- 3.1 Note pad, paint, calculator, word pad, using clip board.
- 3.2 Introduction to word processor, creating and saving a document, editing and formatting a document, inserting symbol, printing a document, adding headers and footers, numbering pages.

Unit-IV MS Excel

- 5.1 Introduction to spread sheets, concept of work sheet and workbook, creating and saving a work sheet, working with a spread sheet, inserting numbers, date / time, inserting and deleting cells, rows and columns, formulae - entering a formula in

B.Sc. (Sem. 2nd) 2011-12

Theory of Games

Total marks - 50
Theory marks - 40
Internal marks - 10
Time: 2 hrs.

Note:- **(a) For paper setter**

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

The questions in different units given below should be based on the following games:

i) Badminton (ii) Baseball (iii) Archery (iv) Weight lifting

Unit-I

1. **History of games**
2. **Role of Haryana's people for the development of games**
3. **Duties of officials (Pre-game, during the game & post game)**
4. **Technical officials * their duties**
5. **Protective equipment used in games**

Unit-II

1. **Dimension & marking of the play field/area**
2. **Rules & regulations of the games mentioned above**
3. **Interpretation of rules & regulations**

Unit-III

1. **Fundamentals of various games**
2. **Offensive & regulations of the games mentioned above.**
3. **Conduct of tournament & types of fixtures used in the games mentioned above.**

Reference:

1. **Wado Allen – The F.A. Guide to training and coaching.**
2. **Seeton, D.C. Dhyton, IA Leibu, HC and Massumith, 1 Basic book of Sports, Englewood Cliffs, MD Prephilice Hall**

B.Sc. (Sem. 1st) 2011-12

Theory of Athletics

Total marks - 50
Theory marks - 40
Internal marks - 10
Time: 2 hrs

Note:- **(a) For paper setter**

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

The question in different units given below should be absed on the following events:

- i) Relay races
- ii) High jump

UNIT-I

- i) Organization administration of College athletics meet
- ii) Duties of officials in athletics meet
- iii) Interpretation of rules and regulations of the events mentioned above.

UNIT-II

Fundamentals of various events:

- i) **High Jump-approach run, take off, flight, landing off different techniques**
- ii) **Relay races**

UNIT-III

- (i) Dimension and marking of events given above
- ii) Equipment and their specifications used in various events mentioned above.

Ref.

1. Doberty J. Manneth – Modern track and field, Englewood Cliffe, N.J. Prentica Hall, Ino.
2. Wado Allen – The F.A. Guide to training and coaching.
3. Uyenishi S.L. The Text Book of JU – Jutus- Athletic Publications Ltd Link House, Store Street, London, W.C.I.

B.Sc. I English

Note:- Paper Setter is required to set 10 questions from 5 units. Two questions from each Unit. Candidate is required attempt five questions in all selecting one question from each Unit.

- A. The Pointed Vision: An Anthology of Short Stories by Usha Bande and Krishan Copal (Oxford University Press, New Delhi.
B- Ideas Ag low edited by Dinesh Kumar & U.B. Abrol.
C. Text Prescribed: A Remedial English Grammar for foreign Students by V.T. Wood.
- Q1. Explanation with Reference to the Context.
The candidate will be required to attempt two passages each (with internal choice) from the book Collection of essays (Ideas Aglow). 10 Marks
- Q2. Short answer type questions on short stories (five questions to be attempted out of the given eight)
OR Four short-answer questions will be set on the prescribed essays. The students will be required to attempt any five out of the given eight questions. 5 mark
- Q3. One essay-type questions (with internal choice) will be set on each of the prescribed texts A & B. Students will be required to attempt one question each from both the texts. 5 marks
- Q4. Comprehension Passage from the book of essays (with five questions at the end)
- Q5. Items based on the exercises appended to the essays in Text (B) 5 marks
- Q6. (a) Idioms and phrases 15 marks
(b) Synonyms / antonyms
(c) One word substitution
- Q7. Comprehension passage (with five questions at the end) 5 marks
- Q8. Paragraph: The candidate will be required to write a paragraph on any of the five given topics. 5 marks
- Q9. Letter / Application: Students' will be asked to write a letter or an application (The Question will carry internal choice).
- Q10. Translation (From Hindi to English) of a passage consisting of 8 to 10 questions.

Paper-I (Semester 3rd)
KINESIOLOGY

Theory Marks: 80
Inter Assessment: 20
Time: 3 hours

Note:- (a) **For paper setter**

4. Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
5. 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.
6. 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 questions from each unit. Question No. 1 is compulsory. All questions carry equal marks.

UNIT-I

- Meaning of kinesiology brief history of Kinesiology. Importance of kinesiology for games and sports; structural & functional classification of muscles. Role of muscles in Physical activity, anatomical standing position, planes and axes of movement. Terminology of fundamental movement.

UNIT-II

- Newtons laws of motion and their implication in Physical Education and Sports. Levers, Equilibrium, Center of gravity, force centerpetal and centrifugal force; Application of biomechanical principles to high jump, throwing movement, like discuss, shotput and javelin. Motor movement Movement, rhythm, movement coupling, movement precision and movement amplitude

UNIT-III Location and actions of muscles at various joints:

- Upper extremity-shoulder girdle, shoulder joints & elbow joint. Deltoid, Latissimus Dorsi, Pectoralis major, supra spinatus, pectoralis minor, Trapezius and levator scapulas, Biceps Brachii, Brachialis and Triceps
- Lower extremity: Hipjoint, Kneejoint & Ankle joints, Gluteus Maximums, Gluteus medius, Gluteus minimum, Hamstring (Group), quadriceps (Groups), Gastrocnemius, Sartorius.
- The spinal column.

UNIY-IV

- Meaning, importance, aims and objectives of biomechanics in Physical Education and sports; kinetics, speed, velocity, acceleration, projectile, linear, kinetics, mass, weight, pressure, work energy, momentum, friction, impulse, inertia.

Posture and postural deformities:

- Meaning of posture type of posture, importance of posture, causes of poor posture, preventive and remedial measures of a poor posture, common postural deformities kyphosis, lordosis, flat foot, knock knees, bow legs, lateral curvatures.

REFERENCE

1. Breer and Zarnicks, Efficiency of human movement W.B. Co., Philadelphia, 1979.
2. Nu. Scientific Principles of coaching Prentice Hall 1962.
3. Per and Glassgow, C.V. Mosby Co. Saint
4. The mechanics of Athletics, Halmas and Meiar.
5. Miller, Mitohelgon, Paul and Smith, Techniques for of Human Movement Lapse Books London 1975.
6. Biomechanics of Sports technique inc. N.J. 1978
7. Deij, the Anatomical and Mechanical Bones of Motion, Prentice Hall Inc. N.J. 1982.
8. Mechnotach, Bionochanic sportlicher Bowegungun sport-verley Berlin 1978.
9. Logan and Mckinney, Anatomic Kinesiology, M.C. Brown Co. 1977.
10. Marliyn and Hinsen, Kinesiology, Web Dubugue Lown 1977.

Paper-II (Semester 3rd)
THEORY OF GAMES

Theory Marks: 40
Inter Assessment: 10
Time: 2 hours

Note:- (a) **For paper setter**

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) **for candidates**

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

The Questions in different units given below should be based on the following games:

1. Football (2) Handball (3) Swimming (4) Gymnastic

UNIT-I

- History of games
- Role of Haryana's people for the development of games.
- Duties of officials (Pre-game, during the game & Post game)
- Technical officials & their duties.
- Protective equipment used in games.

UNIT-II

- Dimension & marking of the play field/area
- Rules & regulations of the games mentioned above
- Interpretation of rules & regulations

UNIT-III

- Fundamentals of various games.
- Offensive & defensive strategy employed in the various games
- Conduct of tournament & Types of fixtures used in the games mentioned above,

REFERENCES

- 1. Wado Allen – The F.A. Guide to training and coaching**
- 2. Seeton, D.C. Dhyton, I.A. Leib, H.C. And Massumith, Book of sports, Englowood Cliffs, MD. Prephilice Hall.**
- 3. Dr. Faaune Hero-The Modern Olympic games Budapest, Pennonic Press.**
- 4. Cobarig A.L. Modern Basketball-A Fundaments Analysis of Skills and Tactics, London: Nicholes Kaya. 1966.**
- 5. Bee, Clair and Norton, on Zone Defense and Attack, New York. The Ronld Press Company, 1959.**
- 6. Bowland B.J Handball a complete Guide London: Faber & Faber Ltd., 24, Rosset Square, 1970.**

Paper-III (Semester 3rd)
THEORY OF ATHLETICS

Theory Marks: 40
Inter Assessment: 10
Practical marks: 50
Time: 2 hours

(a) For paper setter

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

The Questions in different units given below should be based on the following Athletic events:

(i) 400 meter (ii) 800 meter and 10000 meter races

UNIT-I

- **History of athletics in India.**
- **Organization & administration of College athletic meet**
- **Teaching & training of athlete (Track & Events)**

UNIT-II

- **Dimension, rules & regulations of track & field events given below.
400, 800 meters, 10000 meters races**
- **Duties of technical officials in athletic meet.**
- **Equipment and their specifications used in various events of track & field.**

UNIT-III

Fundamentals of various events.

- **400 meter race running with finish technique**
- **800 meter race running with finish technique**
- **10000 meter race running with finish technique.**

REFERENCE

1. **Doherty J. Manneth – Modern track and Field, Engwood Cliffe, N.J. Prentice Hall, Ino.**
2. **Wado Allen – The F.A. Guide to training and coaching.**
3. **Uyenishi S.L.- The Text Book of JU- Jutsu-Athletic Publications Ltd. Link House, Store Street, London, W.C.I.**

Paper-iv (Semester 3rd)
ENVIRONMENT STUDIES

Time: 3 hours
Max. Marks: 100
Theory: 75
Practical: 25

Paper setter is required to set 10 questions from 5 units, two questions from each unit. Candidate is required to attempt five questions in all selecting one question from each unit. All questions carry equal marks.

UNIT-I

NATURAL PROCESS

- Solar System:- Sun, major planets and their satellites. Water cycle, wind, ice, ecosystem, components of ecosystem. Ecological succession, major biotic communities, biomes of India, whether modification, noise pollution.

UNIT-II

PUBLIC HEALTH

- Epidemiology – meaning and its types, food born and water born diseases, food related health problems other than biological agents. Air born disease. Disease from animal to man. Air born infection caused by pollution other than micro-organism, insecticide, control & measurements of Rodents.

UNIT-III

WATER RESOURCES AND AIR RESOURCES

- Uses of water, water sanitation, sources of water, water supply, water quality, water purification, drinking water standard, contamination of drinking water, water pollutants, water pollution. Types of water pollution and its causes. Control of water pollution and water management.

UNIT-IV

- Air pollution, source of air pollution, major types of air pollutants and consequences of air pollution. Effects of air pollution on human health and in other organism. Effects of air pollution on weather, air pollution control, control of gaseous pollution, control of air pollution by legislation and trees.

UNIT-V

ENVIRONMENTAL MANAGEMENT AND PUBLIC PARTICIPATION:

- Environmental management objectives of environmental management, principle of Environmental Management, strategy of Environmental management. Natural resources management, solid waste management. Environment ethics environment conservation, bio-sphere reserve forest conversation, bio-diversity conservation, wild life conservation.

REFERENCES

1. Aggarwal, K.C. 2001 Environmental Biology, Nidi Pub. Ltd., Bikaner.
2. Bharucha, Frach. The Biodiversity of India. Mapin Publishing Pvt. Ltd. Ahmedabad 380013. India. Email: mapin@icenet.net ®
3. Brunner R.C. 1989. Hazardour Waste Incineration, MC.Graw Hill Inc. 480p.
4. Clark R.S. Marine Pollution, Slanderson Press Oxford (TB)
5. Cunningha, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Pub. House, Mumbai 1196 p.
6. De A.K. Environmental Chemistry, Wiley Eastern Ltd.
7. Down to Earth, Centre for Science and Environmental (R)
8. Gleick, H.P. 1993. Water in crisis, Pacific Institute for Studies in Dev. Environmental & Security. Stockholm Env. Institute Oxford Univ. Press, 473 p.
9. Hawkins R.E. Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)
10. Heywood, V.H. & Waston, R.T. 199. Global Biodiversity. Assessment, Cambridge Pub. House, Delhi 1140 P.
11. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p.
12. Mckinney, M.L. & Schoch, RM 1996. Environmental science Systems & Solutions, Web enhanced edition 639 p.
13. Mhaskar A.K. Matter Hazardous, Tekchno-Science Publications (TB)
14. Miller T.G. Jr. Environmental Sciences. Wadsworth Publishing Co. (TB).
15. Odum, .P. 1971. Fundamentals of Ecology. W.B. Saunders Co. USA, 574 p.
16. Rao M.N. & Datta, A.K. 1987. Waste Water Treatment. 004Fford & OBH Pub. Co. Pvt. Ltd. 345 p.

Paper-VI (Semester 4th)
PHYSIOLOGY OF EXERCISE

Theory Marks: 80
Inter Assessment: 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 questions from each unit. Question No. 1 is compulsory. All questions carry equal marks.

UNIT-I

- **Definition of exercise, types of exercise, benefit of exercise. Meaning of Physiology and Exercise Physiology, Importance & functions of Exercise Physiology in the field of Physical Education and Sports. Long term and short term effects of exercise on muscular system.**

UNIT-II

- **Physiology of respiratory system and types of respiration, mechanism of inhibition and exhibition, effects of exercise on respiratory system, lungs and exercise. Endocrine system, functioning of various endocrine glands pituitary glands, Thyroid gland, adrenal gland, effect of exercise on the functioning of endocrine glands, nervous system**

UNIT-III

- **Cardio-vascular system:- Adaptation of heart, Effect of exercise on heart, changes in heart, Blood, Blood pressure, effect of exercise on blood & blood pressure. Physiology of excretory system, effect of exercise on excretory system. Basic physiology of circulatory system effects of exercise on circulatory system**

UNIT-IV

- **Physiology of Digestive system, stages of digestive process in mouth, stomach, small intestine, Large intestine, function of liver, effect of exercise on digestive system. Reflex action, reciprocal intervention. Effect of exercise on nervous system.**

REFERENCE

1. **Basic Anatomy of Physiology of exercise-Piyush Jain**
2. **Introduction to anatomy & Physiology of Exercise- Sandhya Tiwari**
3. **Essential of Physical Education & Sports – Dr. Ajmer Singh & others**
4. **Essential of Exercise Physiology – Lessy G. Shower.**
5. **Guyton, A.C. Text Book of Medical Physiology, W.B. Saunders Company, Philadelphia, 1981.**
6. **Devries, H.A. Physiology of Exercise for Physical Education and Athletics. London: Staoles Press, 1976.**

Paper-VII (Semester 4th)
HEALTH EDUCATION, FIRST AID AND SAFELY MEASURES

Theory Marks: 60
Inter Assessment: 15
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 12 marks. It will comprise of 6 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 12 marks each.

(b) **for candidates**

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

UNIT-I

- Meaning of Health, Importance of Health, factors influencing Health Status, Characteristics of healthy individual. Health yesterday and today. New directions for health – health promotion, Physiological health, mental health, emotional health social health, spiritual health & happiness. A key to well being, dos laughter enhance health?

UNIT-II

- School health programme and health environment, School building, light renovation, Sanitation, School canteen, School health examination, academic programme, nutrition, balance diet, caloric value of food for competitive sports. Eating for health, today's dieting guide lines medicated value of food.

UNIT-III

- Methods of Education in Health. Health instructions audio-visual methods. Health organizations- world health organizations, Red Cross, government health agencies. Communicable diseases-modes of transmission, control and prevention of following disease-
(i) cholera (ii) small-pox (iii) typhoid (iv) malaria (v) influenza

UNIT-IV

- First Aid: Definition and importance of first aid in modern life, types of first aid, first aid box. Reasons of sports injuries, principle of first aid, functions & qualities of a good first aider.
- Basic steps in safety measures safety measures for the following (i) bites of animals, burns, control of bleeding, cuts and wounds. Safety for **drawing** artificial respiration. Safety measures environmental hazards. Heat stroke, heat syncope, wind chill and sunburn.

REFERENCE

1. Safety at School - (Education Pamphlet numbers 53 Lonon: Her Majesty's Stationery office 1969.
2. School Safety Policies – Vashington L.C. American Association for Health, Physical Education and Recreation, 168
3. Stack, Harbet J. Duke Elkow Education for safe Living: Englowood cliffs, New Jersey, Prentice Hall Inc 1966.
4. Florio. A & Stafford G.T. – Safety Education New York Inc. Graw Hill book Co. 1967.
5. Evans. A William Everyday Safety, Chicago: Iyons and Camahan, 1952.
6. Health Education by Moss and other (National Education on Association at UTA) 1964.
7. Torner et al: School Health Education. Harper t. Louis, The V.C. Mosby Co. 1976.

Paper-VIII (Semester 4th)
THEORY OF GAMES

Theory Marks: 40
Inter Assessment: 10
Time: 2 hours

(a) For paper setter

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

The Questions in different units given below should be based on the following games:

(1) Table Tennis (2) Suiting (3) Wrestling

UNIT-I

- History of games
- Role of Haryana's people for the development of games.
- Duties of officials (Pre-game, during the game & Post game)
- Technical officials & their duties.
- Protective equipment used in games.

UNIT-II

- Dimension & marking of the play field/area
- Rules & regulations of the games mentioned above
- Interpretation of rules & regulations

UNIT-III

- Fundamentals of various games.
- Offensive & defensive strategy employed in the various games
- Conduct of tournament & Types of fixtures used in the games mentioned above,

REFERENCES

7. Wado Allen – The F.A. Guide to training and coaching
8. Seeton, D.C. Dhyton, I.A. Leibu, H.C. And Massumith, Book of sports, Englowood Cliffs, MD. Prephilice Hall.
9. Dr. Faaune Hero-The Modern Olympic games Budapost, Pennonic Press.
10. Cobarig A.L. Modern Basketball-A Fundaments Analysis of Skills and Tactics, London: Nicholes Kaya. 1966.
11. Bee, Clair and Norton, on Zone Defense and Attack, New York. The Ronld Press Company, 1959.
12. Bow land B.J. Handball a complete Guide London: Faber & Faber Ltd., 24, Rosset Square, 1970.

**Paper-IX (Semester 4th)
THEORY OF ATHLETICS**

Theory Marks: 40
Inter Assessment: 10
Practical marks: 50
Time: 2 hours

(a) For paper setter

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

The Questions in different units given below should be based on the following Athletic events:

(i) Hurdle (ii) High Jump and Shotput

UNIT-I

- **History of IAAF in India.**
- **Organization & administration of University athletic meet**
- **Teaching & training of athlete (field events)**

UNIT-II

- **Dimension, rules & regulations of track & field events given below.**
(i) Hurdle (ii) High Jump and Shotput
- **Duties of technical officials in athletic meet.**
- **Equipment and their specifications used in various events of track & field.**

UNIT-III

Fundamentals of various events.

- Shotput –Holding, Placement of shot, initial stance, Glide/rotation, Delivery Stance, Delivery action, reverse.
- Hurdle-approach, take off, action of lead leg & trailing leg, flight,landing, stride in between hurdles.
- High Jump- approach, run, take off, bar clearance, landing in different techniques.

REFERENCE

4. Doherty J. Manneth – Modern track and Field, Englwood Cliffe, N.J. Prentice Hall, Ino.
5. Wado Allen – The F.A.Guid to training and coaching.
6. Uyenishi S.L.- The Text Book of JU- Jutsu-Athletic Publications Ltd. Link House, Store Street, London, W.C.I.

B.Sc. Sports Science Part-III (Semester 5th)2013-14
Physiotherapy-I

Theory marks: 40
Internal Assess: 10
Time: 3 hours

(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 8 marks. It will comprise of 4 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 8 marks each.

(b) for candidates

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

Unit-I

- Meaning of Physiotherapy, Scope and utility of physiotherapy, Physiotherapy in sprain, strain, muscle pull, muscle soreness, Hydrotherapy, meaning, precaution in giving the hydrotherapy, Benefits of hydrotherapy.

UNIT-II

- Massage: Meaning and importance in sports, Physical benefits of massage with its utility in sports, Electrotherapy: Meaning & Importance, Danger of using Electrotherapy, Benefits of Electrotherapy,

UNIT-III

- Meaning of Thermo Therapy, Physiological effects of Thermo- therapy. Do's and don't do's in Thermo Therapy, Cryo-Therapy importance of- Cryo Therapy methods employed in Cryo Therapy.

UNIT-IV

- Exercise therapy meaning of therapeutic exercise, kinds and its utility in sports. Therapeutic exercise for person suffering from back pain and spondylises.
- Meaning of Rehabilitation, importance of Rehabilitation Principles of re-habilitation, Role of Physical Education Teacher in rehabilitation.

References:

1. Sports Physiotherapy-K.C.Shekhar
2. Pnventive & Corrective Physical Education by George Thomos
3. Ine Chinese ant of neating by Stephen Pulos
4. Giving to elderly people –understanding and practical help
5. Physiotherapy in Medical conditions by Joan R.Cash
6. Sports Physiotherapy K.C. Shekhar
7. Pnventive & Corrective Physical Education by George Thomos
8. Ine Chinese of Neating by Stephen Pulos

B.Sc. III Sports Sciences (Semester 5th)2013-14
Sports Psychology-II

Theory marks: 40
Internal Assess: 10
Time: 3 hours

(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 8 marks. It will comprise of 4 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 8 marks each.

(b) for candidates

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

UNIT-I

- Meaning of Psychology and Sports Psychology, Scope of Sports Psychology, Psychological factors affecting Sports Performance. Learning, types of learning, Factors affecting learning curve.

UNIT-II

- Meaning and definition of motivation. Types of motivation techniques of motivation, importance of motivation in Physical Education and Sports. Techniques of theories.

UNIT-III

- Growth & Development, Various stages of growth and development, growth and development during childhood (Psychological, Physical & Motor Development) Psychological characteristics of an adolescent. Problem of an adolescent.

UNIT-IV

- Meaning and definition of personality, Dimensions of personality, Personality traits, factors affecting personality. Role of Physical activities in development of personality.
- Meaning of Individual Differences, Type of Individual Differences, Factors affecting Individual Differences, Meaning and Definition of emotion.

References:

1. M.L.Kamlesh, Psychology in Physical Education & Sports, Matropolitan book Co. New Delhi 1998.

2. Aldemen A.B., Psychological Behaviour in sports. A.B.Saunders Co., Saunders (1974)
3. Cratty B.J., Psychological and Physical Activity, Prentice Hall.inc.London (1961)
4. Cratty B.J., Psychology in contemporary sports, Prentice Hall.Inc. Englewood cliff (1973)
5. Frost & Rehbon, Psychological Concepts applied section Physical Education and Coaching of Massechusatts (1971)
6. Kane, J.S.- Psychological aspects of Physical Education and Sports, Routler and Ejanpaul, London (1972)
7. Jawthar J.D., Psychology of Coaching, Prentice Hall.inc. R.J., (1951)
Singer, R.N.- Coaching, athletics and Psychology Mograw Mills Book Co. (1972).

B.Sc. III Sports Sciences (Semester 5th)2013-14
Theory of Games-III

Theory marks: 40

Internal Marks: 10

Time: 2 hours

(a) For paper setter

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

UNIT-I

- History and development of following games
Hockey, Netball, Kho-Kho & Lawn Tennis

UNIT-II

- Measurement of Ground, Equipments, Rule & Regulations of :
Hockey, Netball, Kho-Kho & Lawn Tennis

UNIT-III

- Duties of Technical Officials, Fundamental Skills, Awards, Major tournaments, Famous Personalities of Hockey, Netball, Kho-Kho and Lawn Tennis

References:

1. Encyclopedia of Sports and Games (Vol 3) Dr.Pinter Modak, O.P.Sharma (Khel Sahitya Kendra) 2003.
2. Skills and Tactics Hockey 2010, Dr. Sharad Chandra Mishra (Sports Publication).
3. Tennis, Teach yourself (Rachna Jain) Sports Publications 2010.

Theory of Athletics-IV

Theory marks: 40

Internal Marks: 10

Time: 2 hours

(a) For paper setter

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

UNIT-I

- Meaning and Principles of Coaching of 1500 mtrs, Pole-vault and Javelin Throw
- Qualities of good Athletics Coach
- Development of Athletics in India

UNIT-II

- Dimension, Rules & Regulations of following events 1500 mtrs, Pole-vault and Javelin Throw
- Duties of technical officials in 1500 mtrs, Pole-vault and Javelin Throw
- Equipments & their specifications used in 1500 mtrs, Pole-vault and Javelin Throw

UNIT-III

- Fundamentals of 1500 mtrs, Pole-vault and Javelin Throw
- Teaching Stage of 1500 mtrs,
- Teaching Stage of Pole-vault (Approach run, Take-off, Bar clearance, landing in different techniques)
- Teaching Stage of Javelin Throw (Grip, release of javelin initial stance and approach run)

References:

1. Dr. A.K.Srivastava "Teach yourself" Javelin Throw published by Sports Publications 2010.
2. Dr. A.K. Srivastava "Teach yourself" Pole-vaulting published by Sports Publication 2010
3. William J Bowerman, William H. Freeman "High performance Training for Track and Field published by Leisure Press USA 1991
4. Mukesh Kumar "Sports and Games" published by Sports Publication 1995.

B.Sc. Sports Science Part-III (Semester 6th) 2013-14
Foundation of Sports Training-I

Theory marks: 80
Internal Assess: 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 questions from each unit. Question No. 1 is compulsory. All questions carry equal marks.

UNIT-I

- Meaning, definitions,
- Aims and objectives of sports training,
- Principles of sports training
- Importance of Sports Training

UNIT-II

- Training load, load adaptation, overload and recovery, factors of load.
- Circuit training, interval training, (Fartlek training, plyometric training, Sprint training.

UNIT-III

- Development of Motor components: Speed, Strength, endurance, flexibility, agility.

UNIT-IV

- Periodization: Meaning and definition of periodization, importance of periodisation single, double and triple, periodization, long term and short term plan, planning for competition main and build up competitions.

Reference:

1. Batty, B: Article and Motor Development in infants and Children, Prentice Hall, 1979.
2. Dick, F.W : Sports Training Principles Lepus, London 1980.
3. Jenson, C.R. Bischer, A.G. Scientific Basis of Athletic Conditioning Lea and Bebiger, Philedephic, 1972.
4. Matweyew, L.P: Fundamentals of Sports training (Translation from Russian) Mir Publishers, Moscrow, 1981
5. Pyke, Frank, S: Towards better Coaching, Australian Government Publishing Service, Canberra, 1980.

B.Sc. III Sports Sciences (Semester 6th) 2013-14
Sports Sociology-II

Theory marks: 40
Internal Assess: 10
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 8 marks. It will comprise of 4 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 8 marks each.

(b) **for candidates**

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

UNIT-I

- Meaning, Definition of Sports Sociology, Importance of Sports.
- Physical Education and Sports as a Social Phenomenon.

UNIT-II

- Social Institutions: Role of Social Institution in participation in games and sports, Socialization through sports, Sports as regulating institution of society. Sports & Religion how influence in each other..

UNIT-III

- Women in Sports: Social myths related with women.
- Attitude of Society towards sports man and Sports women
- Future of women participation in sports.

UNIT-IV

- Meaning, Definition and characteristics of leadership, qualities of a leader, leadership training in Physical Education, Need and Importance of leadership in Physical Education.

References

1. Cratty B.J., Social dimension of Physical activity, Prentice Hall.inc. B.J.
2. Cratty B.J., Social Psychology in athletics, Prentice hall, inc. F.J. (1981)
3. Martens, Social Psychology and Physical Activity, Harper and Raw Pub. (1975)
4. Singer, R.N., Physical Education-an integrate approach, Rolt, Rivehert & Winsi R.4, (1972).

B.Sc. III Sports Sciences (Semester 6th)2013-14
Theory of Games-III

Theory marks: 40

Internal Marks: 10

Time: 2 hours

(a) For paper setter

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

UNIT-I

- History of Softball, Basketball & Wrestling
- Technical officials and their duties of Softball, Basketball and Wrestling
- Protective Equipments of : Softball, Basketball and Wrestling

UNIT-II

- Dimension and Marking of Softball, Basketball and Wrestling
- Rules and regulations of Softball, Basketball and Wrestling

UNIT-III

- Fundamental Skills of Softball, Basketball and Wrestling
- Preparation of Score sheet of Softball, Basketball and Wrestling
- Major injuries and their prevention of Softball, Basketball and Wrestling

References:

1. Dr. A.K. Srivastava, Dr. Sharad Chandra Mishra, Ram Gopal, R.Jain, Priyanka Narang, Kunal Nagi, "Sports and Games" in Encyclopedia volume 5 published by Sports Publication 2010
2. Harphool Singh "Teaching and Coaching Modern Wrestling: Published by Lokesh Thani 1996.
3. J.P.Sharam "Basket Ball, published by Khel Sahitya Kendra 2007.
4. Tibora Barna "Wrestling made easy" Published by FILA Budapest, Hungry 2011
5. Ashok Kumar "Sports and Games" in International Encyclopedia published by Mittal publication 2000.

B.Sc. III Sports Sciences (Semester 6th)2013-14
Theory of Athletics-IV

Theory marks: 40

Internal Marks: 10

Time: 2 hours

(a) For paper setter

1. Paper setter will set 7 questions in all, out of which students will be required to attempt 4 questions.
2. Question No. 1 will be compulsory and will carry 10 marks. It will comprise of 5 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 three units, out of which the students will be required to attempt one question from each unit. Long answer Type questions will carry 10 marks each.

(b) for candidates

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

UNIT-I

- Teaching & Coaching of :Triple Jump and Hammer Throw
- Selection of an athlete for : Tripple Jump and Hammer Throw
- Safety Equipment used in Tripple Jump and Hammer Throw

UNIT-II

- Dimension and marking of Tripple Jump and Hammer Throw
- Rules & regulations of Tripple Jump and Hammer Throw
- Technical officials and their duties in Tripple Jump and Hammer Throw

UNIT-III

- Fundamental Skill of Tripple Jump and Hammer Throw
- Techniques of Tripple Jump and Hammer Throw
- Major Injuries and their prevention in Tripple Jump and Hammer Throw

References:

1. Ashok Kumar “Sports and Games in International Encyclopedia volume 3 published by Mittal Publication 2000.
2. William J.Bowerman, Willaim, H. Freeman “High Performance Training for Track and Field” published by Leisure Press USA 1991.
3. Mukesh Kumar “Sports and Games” Published by Sports Publications 1995.