NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

SSC2212

FACULTY OF APPLIED SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE EXAMINATIONS

DEPARTMENT OF SPORTS SCIENCE AND COACHING

THEORY: SSC2212: SPORTS SPECIALITY MODULE - TRACK AND FIELD THROWS

MAY 2011

3 HOURS (100 MARKS)

INSTRUCTIONS

Answer 4 questions only. Each question carries 25 marks. Where a question contains subdivisions, the mark value for each subdivision is given in brackets. Illustrate your answer where appropriate with large clearly labeled diagrams.

- 1) (a) Explain what happens at the power position in the discus event. [8 marks]
 (b) Which specific muscles and joints are involved during the movement out of the power position. [9 marks]
 (c) State and explain general and specific flexibility training activities to develop the muscles. [8 marks]

 2) (a) Design an instrument to analyse the technique at all the phases of the javelin
 - throw. [13 marks]
 - (b) The following constitute the demand profile for strength training in the throws. Identify the training goal as well as the content and training method for each:-

i)	Maximum strength.	[3 marks]
ii)	Speed strength.	[3 marks]
iii)	Reactive strength.	[3 marks]
iv)	General body strength.	[3 marks]

- 3) (a) The four (4) throwing events have common features name and describe fully each of the phases in throws, using an event of choice as an example. [10 marks]
 - (b) Considering all throws were developed from weapons of war use the aid of diagram to critically discus the safety precautions during the teaching of throws. [15 marks]
- 4) (a) Use diagrams and/or equations to show how the release angle, release speed, and release height affect the path of a projectile. [10 marks]
 - (b) Ideally the optimum angle of release should be 45°, but research has shown that in the world shot put champions release angles range between 33° and 42°. Identify the causes of this variation and explain how they contribute to this.

5) The following are steps in the teaching progressions of the hummer: standing throw, heel toe turns, safety and grip, standing swings, complete sequence, introduction to turning. (a) Arrange them in the recommended order. [7 marks] (b) Identify the objective for each of the given steps and explain how you would teach/coach an athlete to achieve that objective. [18 marks] 6) Write notes on the following: (a) Open and Closed skills. [4 marks] (b) Simple and Complex skills. [4 marks] (c) Shaping and Chaining. [5 marks] (d) Feedback. Intrinsic Feedback. i) [3 marks] ii) Augmented feedback. [3 marks] (e) Effective Verbal Feedback iii) Specific not General. [1 mark] iv) Constructive not Destructive. [1 mark] v) Sooner not later. [1 mark] [1 mark] vi) Checked for Clarity. Directed to Changeable Behaviour. vii) [1 mark] viii) Correct one fault at a time. [1 mark]

END OF EXAMINATION