## NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

SSC4112

## FACULTY OF APPLIED SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE EXAMINATIONS
DEPARTMENT OF SPORTS SCIENCE AND COACHING

## THEORY: SSC4112: SPORTS SPECIALITY MODULE - ATHLETICS (TRACK AND FIELD -MIDDLE AND LONG DISTANCE, RACE WALKING AND STEEPLE CHASE)

JANUARY 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) Identify the sub-components of the following biomotor abilities and discuss their importance in long distance running performance.
i. Speed
[3 marks]
ii. Strength
iii. Endurance
iv. Flexibility
(b) Identify four (4) mobility exercises for a long jumper explaining how they are done.
2) With the use of examples write a training content for each of the following phases:-
(a) The preparation period
(b) The competition period
(c) The transition period
3) Design a test battery a coach can use to;
(a) Assess the progress of his/her long distance athletes.
[20 marks]
(b) Predict the performance of middle distances athletes.
[5 marks]
4) The following are steps in the teaching progressions of the steeple chase: hurdle technique, water jump technique, water jump whole sequence, hit the spot, hurdling over obstacles in a marked course, step technique I and II.
(a) Arrange them in 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]
5) Design a technique analysis instrument to use for checking the correct technique for all the phases in the race walking event.
6) Critically evaluate the demand profile in an event of your choice, under the subheadings
(a) Endurance
[5 marks]
(b) Speed
[5 marks]
(c) Strength
(d) Flexibility and coordination
[5 marks]
(e) Technique and tactics

## END OF EXAMINATION

