Assessment Notification

Faculty: Mathematics    Course: Mathematics    Year: 12

Assessment Task: HSC Trial Examination

Assessment Weighting: 30%    Due: Term 2    Weeks 9/10    Date: Weeks 9/10

Task Type: Hand in Task □    In Class Task ☒    Practical Task □

Outcomes assessed (NESA)

P2, P3, P4, P5, P6, P7, H1, H2, H3, H4, H5, H6, H7, H8, H9

PLEASE NOTE: Further information related to these codes can be found on the NESA website

Task Description/Overview

The Mathematics examination will be a formal assessment task. The Mathematics examination paper will be based mainly on the Mathematics HSC course and will focus on the course objectives and HSC course outcomes. The Mathematics Preliminary course will be assumed knowledge for this examination.

Detailed Assessment Task Description

**Preliminary Course**
- Basic arithmetic and algebra
- Real functions
- Trigonometric ratios
- Linear functions
- The quadratic polynomial and the parabola
- Plane geometry – geometrical properties
- Tangent to a curve and derivative of a function

**HSC Course**
- Coordinate methods in geometry
- Applications of geometrical properties
- Geometrical applications of differentiation
- Integration
- Trigonometric functions
- Logarithmic and exponential functions
- Applications of calculus to the physical world
- Series and series applications

Test/Examination Structure

<table>
<thead>
<tr>
<th>Section Description</th>
<th>Marks Available</th>
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<tbody>
<tr>
<td>Section I</td>
<td>10</td>
</tr>
<tr>
<td>• Objective response questions</td>
<td></td>
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<tr>
<td>Section II</td>
<td>90</td>
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<td>• There will be SIX questions.</td>
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<td>• All questions will be worth 15 marks.</td>
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<td>• Each question will consist of a number of short-answer parts.</td>
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Total Marks for this task 100
Satisfactory completion of courses
A course has been satisfactorily completed, when the student has:

- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all of the course outcomes