JOHN EDMONDSON HIGH SCHOOL
Assessment Notification

Faculty: Mathematics    Course: Mathematics Extension 1    Year: 12

Assessment Task: HSC Trial Examination

Assessment Weighting: 30%    Due: Term 2 Week 9    Date: Date to be advised

Task Type: Hand in Task [ ]    In Class Task [x]    Practical Task [ ]

Outcomes assessed (NESA)
PE1, PE2, PE3, PE4, PE5, PE6, HE1, HE2, HE3, HE4, HE5, HE6, HE7

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

Task Description/Overview
This Mathematics Extension 1 assessment task will be a formal examination. It will be based mainly on the Mathematics Extension 1 HSC course and focus on the course objectives and HSC course outcomes. The Mathematics Extension 1 Preliminary course and the Mathematics course will be assumed knowledge for this examination.

Detailed Assessment Task Description
Topics to be assessed will be:

Preliminary Course
- Other inequalities
- Further geometry
- Further trigonometry
- Angles between two lines
- Internal and external division of lines into given ratios
- Parametric representation
- Permutations and combinations
- Polynomials
- Harder applications of Preliminary Mathematics course topics

HSC Course
- Methods of integration
- Primitive of sin 2x and cos 2x
- Inverse functions and inverse trigonometric functions
- Induction
- Binomial theorem
- Further probability
- Iterative methods for numerical estimation of the roots of a polynomial equation
- Harder applications of HSC Mathematics course topics

Test/Examination Structure

<table>
<thead>
<tr>
<th>Section Description</th>
<th>Marks Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section I - 10 Objective response questions</td>
<td>10</td>
</tr>
<tr>
<td>Section II</td>
<td>60</td>
</tr>
<tr>
<td>There will be FOUR questions. All questions will be worth 15 marks. Each question will consist of a number of short-answer parts.</td>
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<tr>
<td><strong>Total Marks for this task</strong></td>
<td><strong>70</strong></td>
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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.