

**DEPARTMENT OF HIGHER EDUCATION AND TRAINING  
REPUBLIC OF SOUTH AFRICA  
NATIONAL CERTIFICATE  
INFORMATION PROCESSING N4  
TIME: 3 HOURS  
MARKS: 300**

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**CANDIDATES ARE ALLOWED 30 MINUTES TO  
READ THE INSTRUCTIONS BEFORE THE EXAMINATION  
STARTS.**

	<b>TIME</b>	<b>MARKS</b>
<b>SECTION A: TYPING TECHNIQUE</b>	<b>2 hours</b>	<b>200</b>
<b>SECTION B: WORD PROCESSING</b>	<b>1 hour</b>	<b>100</b>
<b>TOTAL:</b>	<b>3 hours</b>	<b>300</b>

**READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE ANSWERING THE  
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# Information Processing N4 Question Papers

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problem a merry go round has an initial angular velocity of  $10.2$  rpm at the end of the ride the brakes are applied giving it a constant angular deceleration of  $0.032$  rad/s<sup>2</sup> as the ride slows to a stop

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rotational kinematics in the section on uniform circular motion we discussed motion in a circle at constant speed and therefore constant angular velocity however there are times when angular velocity is not constant rotational motion can speed up

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational quantities like  $\theta$ ,  $\omega$  and  $\alpha$  are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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the are only true if the angular acceleration is constant but if it is constant these are a convenient way to relate all these

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