INSTRUCTIONS TO CANDIDATES

1. This answer booklet consists of SIX (6) printed pages. The last page is for your use only if you need more space to write your answers.

2. Fill in your Matriculation Number clearly on all odd-numbered pages.

MATRICULATION NUMBER (fill in with a pen):

A

<table>
<thead>
<tr>
<th>Question</th>
<th>Total</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1-6</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Q7</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Q8</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Q9</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Q10</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Q11</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>
Write your answers for the MCQs in the boxes below.

1.  
2.  
3.  
4.  
5.  
6.  

Write your answers in the box/space provided.

7a. [6]

\[ KA = 1 \]

\[ JA = \]

\[ TB = \]

\[ DC = \]

7b. [3]

7c. [1]
9a. [2] Corresponding C-like statement:

9b. [2] Instruction encoding for "j 1p"

0x [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

9c. [1] $s2 = $

9d. [1] $s2 = $

9e. [2]

10a. [2] Number of cycles =

10b. [3] Number of cycles =

10c. [2] Swap instruction ___________ with instruction _____________
11a. [1]  In binary, Index = 
     In binary, Offset = 

11b. [2]  Number of Cache Misses = 

11c. [2]  Number of Cache Misses = 

11d. [3]  Number of Cache Misses = 

11e. [2]  Number of Cache Misses = 

11f. [2]  Number of Cache Misses = 

Marks for Q11: /12
(This page is used only if you need more space to write your answers.)

=== END OF PAPER ===

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