FINAL EXAMINATION FIRST SEMESTER SESSION 2013/2014

COURSE CODE / NAME : BJTC 3023 - TENDER MANAGEMENT AND EVALUATION
DATE : 04 JANUARY 2014 - SATURDAY
TIME : 9:00 AM. – 11:30 AM. (2½ JAM / HOURS)
VENUE : DTSO

INSTRUCTIONS:

1. This examination paper contains FOUR (4) QUESTIONS in NINE (9) printed pages including APPENDIX, excluding the cover page.
2. You have to answer ALL questions in the answer booklet provided.
3. Candidates are NOT ALLOWED to take both exam question and exam sheet out of the exam hall.
4. Candidates are bound by the UUM’s RULES AND PROCEDURES ON ACADEMIC FRAUD.

MATRICULATION No: ____________ (in word) ____________ (in number)
IDENTIFICATION CARD No: ____________
LECTURER: ______________________
GROUP: ____________ TABLE No: ____________

DO NOT OPEN THIS EXAMINATION PAPER UNTIL INSTRUCTED

CONFIDENTIAL
QUESTION ONE (16 MARKS)

a) Using of a diagram of your own, describe the life cycle of a construction project.

(6 marks)

b) Explain in detail the role of construction industry development board (CIDB) with respect to providing cost information for Malaysian construction industry.

(6 marks)

c) List all the eight (8) items that constitute tender document in a contract with quantities.

(4 marks)
QUESTION TWO (14 MARKS)

a) Universiti Utara Malaysia proposes to construct an exhibition center and you have been contacted to advice on the most suitable tendering methods that is based only on list of prequalified contractors in Kedah state that have registered with the UUM as at November 2013.

   i) Explain the most suitable tendering method. (2 marks)
   ii) List TWO (2) merits and TWO (2) demerits of the tendering method you proposed. (2 marks)

b) Explain all the activities that a contractor should undertake during tender. (6 marks)

c) With aid of a sketch, illustrate the tender stages for a proposed office complex. (4 marks)
QUESTION 3 (32 MARKS)

a) Using the following the **TWO** methods of approximate estimate below, calculate the approximate cost of a proposed residential house in drawing number BJTC 3023/01 - 03. Assuming the rate/m² is RM230, rate/m³ is RM75 and height of building from ground level to roof top is 5.00m. Thickness of wall is 215mm.

   i) Superficial method of approximate estimate.  
   ii) Cubic method of approximate estimate.  

   (5 marks)  
   (5 marks)

b) Use the information provided in Table Question 3 below to calculate the rate/m² of brick wall.

Table Question 3

<table>
<thead>
<tr>
<th>S/N</th>
<th>Item</th>
<th>Quantity</th>
<th>Price/Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>MATERIALS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Brick</td>
<td>1200</td>
<td>RM500/1000</td>
<td>Consider 10m²</td>
</tr>
<tr>
<td>2</td>
<td>Percentage</td>
<td></td>
<td></td>
<td>5%</td>
</tr>
<tr>
<td>3</td>
<td>Cement/Sand Mortar (1:3)</td>
<td>1m³</td>
<td></td>
<td>1400kg</td>
</tr>
<tr>
<td>4</td>
<td>Cement</td>
<td>28 bags</td>
<td>RM50</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Sand</td>
<td>3.81m³</td>
<td>RM40</td>
<td>5% allowance for waste</td>
</tr>
<tr>
<td>6</td>
<td>Percentage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Brick</td>
<td>1m³</td>
<td></td>
<td>0.06m³ mortar</td>
</tr>
<tr>
<td></td>
<td><strong>PLANT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Plant</td>
<td>100 liter</td>
<td></td>
<td>1 mixer @ RM 10.86/hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1m³ @ RM10.86</td>
</tr>
<tr>
<td></td>
<td><strong>LABOUR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Labour</td>
<td>2 brick layers and 1 labourer</td>
<td>1 brick layer @ RM 3.98 &amp; 1 labourer @ RM2.91</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>PROFIT AND OVERHEADS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Profit &amp; overhead</td>
<td></td>
<td>15%</td>
<td></td>
</tr>
</tbody>
</table>

(10 marks)

c) Explain the following types of contract arrangement

   i) Traditional contract  
   ii) Cost reimbursement  

(6 marks) (6 marks)
QUESTION FOUR (38 MARKS)

a) Define the following terms

i) Standard Method of Measurement (SMM) (2 marks)
ii) Prime cost (2 marks)
iii) Provisional sum (2 marks)
iv) Preliminaries (2 marks)

b) Take-off the following items in the Drawing No. BJTC 3023/04-05 in the appendix.

i) Pit excavation (5 marks)
ii) Reinforcement bar (5 marks)
iii) Formwork for columns (5 marks)
iv) Concrete in base and columns (5 marks)
v) Rendering to columns (5 marks)
vi) Painting to columns (5 marks)

END OF QUESTIONS