

**IT1 Spreadsheet Modelling Section B questions**

<b>USER REQUIREMENTS</b>
What the purpose of the spreadsheet is?
What are the detailed outcomes? <ul style="list-style-type: none"><li>• <i>User interface, sheets, features to be used,</i></li><li>• <i>Processes including searches sort validations automated processes</i></li><li>• <i>Outline calculations and results required</i></li><li>• <i>Reports to be printed.</i></li></ul>
<b>DESIGN and IMPLEMENTATION</b>
<b>Identify and explain the purpose of:</b> <ol style="list-style-type: none"><li>1. Labels, data,</li><li>2. Formulas</li></ol> Any two from Group A and two from Group B <b>Group A</b> <ul style="list-style-type: none"><li>– <i>SUM</i></li><li>– <i>COUNT</i></li><li>– <i>MAX</i></li><li>– <i>MIN</i></li><li>– <i>AVERAGE</i></li><li>– <i>RAND</i></li></ul> <b>Group B</b> <ul style="list-style-type: none"><li>– <i>SINGLE IF</i></li><li>– <i>MULTIPLE IF</i></li><li>– <i>DATE</i></li><li>– <i>ROUND</i></li></ul> <ol style="list-style-type: none"><li>3. Multiple sheets and 3D links (<i>Sheets!</i>)</li><li>4. Simplification of data entry<ul style="list-style-type: none"><li>• <i>drop down list boxes</i></li><li>• <i>Lists</i></li><li>• <i>Spinners</i></li><li>• <i>logical True or False or Tick Boxes or Option boxes</i></li><li>• <i>lookup or vlookup or hlookup tables</i></li></ul></li><li>5. Ease of use and professionalism<ul style="list-style-type: none"><li>• <i>startup user interface</i></li><li>• <i>data entry forms</i></li><li>• <i>Control buttons should be used to initiate macros. e.g. navigation / print/ data transfer</i></li></ul></li><li>6. Error trapping e.g. <i>validation techniques and error messages produced NOT spinners or lists</i></li><li>7. Processing<ul style="list-style-type: none"><li>• <i>sorting techniques</i></li><li>• <i>Search for specific criteria e.g. single and multiple criteria</i></li></ul></li><li>8. Appropriate use of graphs <i>such as bar or column graphs, line graphs, pie charts, scatter graphs, pictographs</i></li></ol> <p><b>Must relate to own spreadsheet not general descriptions and must be clearly evidenced in the submitted spreadsheet.</b></p>

## ICT AS Spreadsheet Section B questions

### **EVALUATION**

1. Reflect on what they did or what worked
2. Be **critical** on some aspects of the spreadsheet or system which could be improved
3. Future developments to the spreadsheet or system

### **GENERAL QUESTIONS ON SIMULATION MODELLING**

Candidates should understand and be able to discuss the following;

- Definition of a simulation model.
- Uses of simulation modelling for weather forecasting, car crash analysis and financial forecasting.
- Advantages and disadvantages of using simulation models.
- Issues relating to hardware used for simulation modelling, including parallel and distributed processing.