## Pearson

## Mark Scheme (Results)

## Summer 2017

Pearson Edexcel International
Advanced Level in Information and
Communication Technology (WIT03)
Paper 01
Unit 3: The Knowledge Worker

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## General marking guidance

- All candidates must receive the same treatment. Examiners must mark the last candidate in exactly the same way as they mark the first.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than be penalised for omissions.
- Examiners should mark according to the mark scheme - not according to their perception of where the grade boundaries may lie.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification/indicative content will not be exhaustive.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, a senior examiner must be consulted before a mark is given.
- Crossed-out work should be marked unless the candidate has replaced it with an alternative response.

| International Advanced Level Unit 3 - Mark Scheme - June 2017 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Activity |  | ANSWER |  | POSS. MARK | MAX |
| Activity 1 |  | Understanding the Situation |  |  |  |
|  |  | Any 10 of |  |  |  |
|  | A1 | 2-week tour |  | 1 |  |
|  | A2 | 1 Tour per week for 9 weeks |  | 1 |  |
|  | A3 | Start January |  | 1 |  |
|  | A4 | Land \& Take off at Auckland |  | 1 |  |
|  | A5 | Land 13:30 Day 1 |  | 1 |  |
|  | A6 | Take off Day 13 19:00 |  | 1 |  |
|  | A7 | 10 Attractions Can be listed (towns also be stated) |  | 1 |  |
|  | A8 | Visit times 2 hours to 7 hours (can be listed) |  | 1 |  |
|  | A9 | Coach 49 seats |  | 1 |  |
|  | A10 | Accommodation Prices |  | 1 |  |
|  | A11 | Journey times provided by coach company |  | 1 |  |
|  | A12 | Some attractions in North Island some in South |  | 1 |  |
|  | A13 | Ferry adds four hours fifty minutes to journey time |  | 1 |  |
|  | A14 | Ferry travels between Picton and Wellington |  | 1 |  |
|  | A15 | Each attraction should be visited once |  | 1 |  |
|  | A16 | The more attractions visited the better |  | 1 |  |
|  | A17 | Which attractions to visit and which order |  |  |  |
|  |  |  |  |  | 10 |
|  |  | Any 3 of |  |  |  |
|  | B1 | New roads could have been built |  | 1 |  |
|  | B2 | Road works could be on the route |  | 1 |  |
|  | B3 | Exceptionally heavy traffic (don't accept just traffic needs to be qualified) |  | 1 |  |
|  | B4 | Missing the Ferry |  | 1 |  |
|  | B5 | Plane/ Ferry may be cancelled because of the weather/delays |  | 1 |  |
|  | B6 | Floods or other Natural Disasters. |  | 1 |  |
|  | B7 | Timings based on averages |  | 1 |  |
|  | B8 | Any other reasonable answer (Running out of fuel) |  | 1 |  |
|  |  |  |  |  | 3 |
|  |  |  |  |  |  |
|  |  | Any 3 of |  |  |  |
|  | C1 | Hotels | Accommodation prices | 1 |  |
|  | C2 | Coach company | Journey times/coach capacity/number of coaches | 1 |  |
|  | C3 | Airline company | Suitable aircraft /take-off and landing times, cost of flights, | 1 |  |

## International Advanced Level Unit 3 - Mark Scheme - June 2017

| Activity | ANSWER |  | POSS. MARK | MAX |
| :---: | :---: | :---: | :---: | :---: |
|  |  | seating capacity. |  |  |
| C4 | Ferry Company | Travel time between islands | 1 |  |
| C5 | Emma Babb | Visit times | 1 |  |
| C6 | Koo; Kiwi Tours | Passenger numbers/attractions to be | 1 |  |
| C7 | Heathrow and Auckland airports | Actual take-off and landing times | 1 |  |
| C8 | New Zealand Tourist Board | Locations of attractions | 1 |  |
|  |  |  |  | 3 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  | Total Marks for Activity |  | 16 |
|  |  |  |  |  |



|  | B7 | 7am (07:00) and 7pm (19:00) values correct | $\mathbf{1}$ |  |
| :---: | :---: | :--- | ---: | ---: |
|  | B8 | Time function used twice | $\mathbf{1}$ |  |
|  | B9 | Both formulae replicated correctly | $\mathbf{1}$ |  |
|  |  |  |  | 9 |


|  | I |  |
| :---: | :--- | :--- |
| 9 | $=$ VLOOKUP(A9,Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 9+\mathrm{l} 9$ |
| 10 | $=\mathrm{VLOOKUP}(\mathrm{A} 10$, Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 10+\mathrm{l} 10$ |
| 11 | $=\mathrm{VLOOKUP}(\mathrm{A} 11$, Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 11+\mathrm{l} 11$ |
| 12 | $=\mathrm{VLOOKUP}(\mathrm{A} 12$, Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 12+\mathrm{l} 12$ |
| 13 | $=\mathrm{VLOOKUP}(\mathrm{A} 13$, Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 13+\mathrm{l} 13$ |
| 14 | $=\mathrm{VLOOKUP}(\mathrm{A} 14$, Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 14+\mathrm{l} 14$ |
| 15 | $=\mathrm{VLOOKUP}(\mathrm{A} 15$, Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 15+\mathrm{l} 15$ |
| 16 | $=\mathrm{VLOOKUP}(\mathrm{A} 16$, Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 16+\mathrm{l} 16$ |
| 17 | $=\mathrm{VLOOKUP}(\mathrm{A} 17$, Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 17+\mathrm{l} 17$ |
| 18 | $=\mathrm{VLOOKUP}(\mathrm{A} 18$, Attractions!\$A\$7:\$D\$18,4,FALSE) | $=\mathrm{H} 18+\mathrm{l} 18$ |



|  |  | Time Calculation 3 |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | D1 | Formula in L9 produces correct results in all circumstances =G9 | $\mathbf{1}$ |  |
|  | D2 | Formula in M9 produces correct results in all circumstances =J9 | $\mathbf{1}$ |  |
|  |  |  |  |  |
|  |  | $=$ IF(J9+K9>TIME(19,0,0),0,K9) |  |  |
|  |  | Alternative | $=$ IF(J9+K9<=TIME(19,0,0),K9,0) |  |
|  | D3 | Formula in N9 produces correct results in all circumstances | $\mathbf{1}$ |  |
|  | D4 | True and false values are in correct order for the comparison. | $\mathbf{1}$ |  |


|  | D5 | 7pm (19:00) value correct |  |  |  |  | 1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | D6 | Time function used |  |  |  |  | 1 |  |
|  |  | $=\mathrm{M} 9+\mathrm{N} 9$ |  |  |  |  |  |  |
|  | D7 | Formula in O9 produces correct results in all cases |  |  |  |  | 1 |  |
|  | D8 | SUM function not used in any formulae |  |  |  |  | 1 |  |
|  | D9 | All formulae replicated correctly (must have correct formulae) |  |  |  |  | 1 |  |
|  |  |  |  |  |  |  |  | 9 |
|  |  | Example of one possible solution |  |  |  |  |  |  |
|  |  | B | c | D | E | F |  |  |
| 17 | Trip Chooser Start Day |  |  | Start Time | Visit Count |  |  |  |
| 18 | Heathrow |  | 0 | 07:00:00 T | Tiffany Dell |  |  |  |
| 19 | Auckland |  | 1 | 13:30:00 M | Mount Ted |  |  |  |
| 20 | Mount Ted |  | 1 | 13:30:00 M | Maze of Tunnels |  |  |  |
| 21 | Tiffany Dell |  | 2 | 07:00:00 F | Flight of the Imps |  |  |  |
| 22 | Indigo Rapids |  | 3 | 06:41:53 L | Living Forest |  |  |  |
| 23 | Living Forest |  | 4 | 07:00:00 In | Indigo Rapids |  |  |  |
| 24 | Flight of the Imps |  | 5 | 07:00:00 S | Salmon Run |  |  |  |
| 25 | Sandstone Rock |  | 6 | 04:56:53 S | Sandstone Rock |  |  |  |
| 26 | Slowhand Falls |  | 7 | 07:00:00 S | Slowhand Falls |  |  |  |
| 27 | Imp Place |  | 8 | 04:06:53 Im | Imp Place |  |  |  |
| 28 | Maze of Tunnels |  | 8 | 03:41:53 |  |  |  |  |
| 29 | Salmon Run |  | 9 | 07:00:00 |  |  |  |  |
| 30 | Auckland |  | 13 | 19:00:00 |  |  |  |  |
| 31 | Heathrow |  | 16 | 17:00:00 |  |  |  |  |
|  |  | Using the Model |  |  |  |  |  |  |
|  |  | IF N/A appears in any of the start days. No E marks |  |  |  |  |  |  |
|  |  | If visits are all on one day. . No E marks |  |  |  |  |  |  |
|  |  | If visits start days to attractions are (ignore Auckland and Heathrow) $\mathbf{> 1 3}$ No E marks |  |  |  |  |  |  |
|  | E1 | $>4$ days visits (excluding day 1 and day 13) |  |  |  |  | 1 |  |
|  | E2 | >9 days used for visits (excluding day 1 and day 13) |  |  |  |  | 1 |  |
|  | E3 | >6 attractions visited |  |  |  |  | 1 |  |
|  | E4 | >9 attractions visited |  |  |  |  | 1 |  |
|  |  | Only award marks below if all formulae are correct in B, C and |  |  |  |  |  |  |
|  | E5 | All attractions visited |  |  |  |  | 1 |  |
|  | E6 | Nowhere visited more than once |  |  |  |  | 1 |  |
|  | E7 | Last visit on Day 12 |  |  |  |  | 1 |  |
|  | E8 | Bonus for no visit on Day 13 |  |  |  |  | 1 |  |
|  |  |  |  |  |  |  |  | 8 |
|  |  | Printouts |  |  |  |  |  |  |
|  |  | All printouts and no more in right order are required to be eligible for the following marks (No marks for screenshots) |  |  |  |  |  |  |
|  | F1 | Row and Column headings and Gridlines on (All 5 worksheets) |  |  |  |  | 1 |  |
|  | F2 | Correct rows and columns printed (All 5 worksheets) |  |  |  |  | 1 |  |
|  | F3 | Correct header \& footer (All 5 worksheets) |  |  |  |  | 1 |  |


|  |  |  |  | 3 |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  | Total Marks for Activity | $\mathbf{3 6}$ |
|  |  |  |  |  |
|  |  |  |  |  |





| Activity | Report |  |
| :--- | :--- | :--- | :--- | :--- |


| Indicative Colour |  |  |  |
| :---: | :---: | :---: | :---: |
| Business report <br> Recommendations with justifications of decisions Reasons the recommendations might be flawed <br> Evaluation of the model |  |  |  |
| Level | Marks |  |  |
| Level 0 | 0 marks | No rewardable content |  |
| Level 1 | 1-5 | The candidate will have made a recommendation for the order of the trip, based on Activity 2 (usually including a screenshot), but may not justify it. There may not be a recommendation of the cost. The evaluation of the model will be superficial there may be some suggestions for simple/basic improvements. <br> Spelling, punctuation and the rules of grammar are used with limited accuracy. |  |
| Level 2 | 6-10 | The candidate will have made a recommendation for the order of the trip and provided a basic justification, such as using the map to help decide the routes or choosing sites in North Island and moving to South Island . There will be a recommendation of the cost with a basic justification. There will be recommendations on aircraft types with basic justifications. There will be appropriate recommendations and they would be justified on cost alone. The evaluation of the model will highlight some deficiencies in the model and make suggestions for improvements. <br> Spelling, punctuation and the rules of grammar are used with some accuracy. |  |
| Level 3 | 11-15 | The candidate will have made a recommendation for the order of the trip and fully justified it. There will be a recommendation of the cost justified by the profit and effective use of the aircraft. There will be appropriate recommendations and they will be fully justified. The evaluation of the model will highlight a range of deficiencies in the model and there will be a range of suggestions for improvements. <br> Spelling, punctuation and the rules of grammar used with considerable accuracy. |  |
|  |  | Total Marks for Activity | 15 |
|  |  |  |  |


| SWW |  |  |  |  |
| :--- | :--- | :--- | ---: | ---: |
|  | S1 | Authenticating Work (All WP pages have task number, <br> Name, | $\mathbf{1}$ |  |
|  | S2 | Appropriate Structure (Pages in correct order \& Folder <br> assembled | $\mathbf{1}$ |  |
|  |  | Total for SWW | $\mathbf{2}$ |  |
|  |  |  | Total for Paper |  |
|  |  |  | $\mathbf{9 0}$ |  |
|  |  |  |  |  |

